1.0 Reference and Address			
Report Number	20010480HKG-001	Original Issued: 9-Feb-2021	Revised: 5-Jun-2024
Standard(s)	LED Sign and Sign Retrofit Kits [UL 879A:2012 Ed.1+R:19May2022] Portable and Stationary Electric Signs and Displays [CSA C22.2#207:2015 Ed.2]		

Applicant	XIAMEN PVTECH CORPORATION LTD.	Manufacturer 1	**XIAMEN PVTECH CORPORATION LTD.**
Address	No.200 Middle Neian Road, Xiamen, Fujian 361101	Address	No.200 Middle Neian Road, Xiamen, Fujian 361101
Country	China	Country	China
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Email	sale10@pvtech.com.cn rd59@pvtech.com.cn	Email	sale10@pvtech.com.cn rd59@pvtech.com.cn

Manufacturer 2	**PVTECH LIGHTING(VIETNAM) CO., LTD**
Address	Factories B3-3& B3-4 Lot 5, Cam Dien– Luong Dien Industrial Park CamDien Commune, Cam Giang District Hai Duong Province
Country	Vietnam
Contact	Song Wencai Owen Luo
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2.0 Product Description

Product	T8 LED Sign Retrofit Tube
Brand name	PVTECH, Waveform lighting, PJ lighting, XIAMEN PVTECH CORPORATION LTD.
Description	The products covered by this report are T8 LED retrofit assembly intended for factory installation in approved sign. They are provide with flexible cord or R17d lamp cap connectors supply connection. They are suitable for damp location use.
Models	PVST842-21W-360-, PVST830-15W-360-, PVST818-9W-360-, PVST812-6W-360-, PVST842-10.5W-180-, PVST830-7.5W-180-, PVST818-4.5W-180- or PVST812-3W-180-; followed by two numbers; followed by K. PVST842-21WD-360-, PVST830-15WD-360-, PVST818-9WD-360-, PVST812-6WD-360-, PVST842-10.5WD-180-, PVST830-7.5WD-180-, PVST818-4.5WD-180- or PVST812-3WD-180-; followed by two numbers; followed by K. PJST842-21W-360-, PJST830-15W-360-, PJST818-9W-360-, PJST812-6W-360-, PJST842-10.5W-180-, PJST830-7.5W-180-, PJST818-4.5W-180- or PJST812-3W-180-; followed by two numbers; followed by K. PJST842-21WD-360-, PJST830-15WD-360-, PJST818-9WD-360-, PJST812-6WD-360-, PJST842-10.5WD-180-, PJST830-7.5WD-180-, PJST818-4.5WD-180- or PJST812-3WD-180-; followed by two numbers; followed by K. PVT8-18IND21-7W-, PVT8-24ND21-10W-01-, PVT8-30IND21-13W-, PVT8-36ND21-16W-, PVT8-42IND21-18W-, PVT8-48IND21-21W-, PVT8-60IND21-26W-, PVT8-64IND21-28W-, PVT8-72IND21-31W-, PVT8-84IND21-37W-, PVT8-96IND21-42W-, PVT8-108IND21-47W-, PVT8-117IND21-50W- or PVT8-120IND21-52W-; followed by two numbers; followed by -360-; followed by two numbers; followed by K.
Model Similarity	The products have similar mechanical and electrical construction, differences among them are dimension, LED quantity and ratings. Note: The two numbers (or represents as ** in the report) denotes the CCT of LED. For PVT8-18IND21-7W-%%-360-**K, PVT8-24ND21-10W-01-%%-360-**K, PVT8-30IND21-13W-%%-360-**K, PVT8-36ND21-16W-%%-360-**K, PVT8-42IND21-18W-%%-360-**K, PVT8-48IND21-21W-%%-360-**K, PVT8-60IND21-26W-%%-360-**K, PVT8-64IND21-28W-%%-360-**K, PVT8-72IND21-31W-%%-360-**K, PVT8-84IND21-37W-%%-360-**K, PVT8-96IND21-42W-%%-360-**K, PVT8-108IND21-47W-%%-360-**K, PVT8-117IND21-50W-%%-360-**K, PVT8-120IND21-52W-%%-360-**K: The "%%" can be two digits from 01 to 99, denotes product code. The **" can be two numbers, denotes the CCT of LED. For PVT8- series LED driver, they are same circuit and same PCB layout, only different between them are input rating, based on resistor(RS1,RS2,RS3), Inductors (L3, TR1) Electrolytic Capacitors(EC2), Capacitors(C1,C2,C3), Fuses (F1,F2,F3)parameter.

Model No.	Voltage & frequency & current	LED quantities (pcs)	Wattage (W)	Dimension D * L(mm)	Weight (Kg)
PVST842-21W-360-**K, PVST842-21WD-360-**K	120-277Vac, 50/60Hz, 0.17A	60	21	Ø26.7 * L1066.8	0.42
PVST830-15W-360-**K, PVST830-15WD-360-**K	120-277Vac, 50/60Hz, 0.13A	44	15	Ø26.7 * L762	0.3
PVST818-9W-360-**K, PVST818-9WD-360-**K	120-277Vac, 50/60Hz, 0.08A	24	9	Ø26.7 * L457.2	0.19

2.0 Product Description

Model No.	Voltage & frequency & current	LED quantities (pcs)	Wattage (W)	Dimension D * L(mm)	Weight (Kg)
PVST812-6W-360-**K, PVST812-6WD-360-**K	120-277Vac, 50/60Hz, 0.05A	18	6	Ø26.7 * L304.8	0.14
PVST842-10.5W-180-**K, PVST842-10.5WD-180-**K	120-277Vac, 50/60Hz, 0.09A	30	10.5	Ø26.7 * L1066.8	0.37
PVST830-7.5W-180-**K, PVST830-7.5WD-180-**K	120-277Vac, 50/60Hz, 0.06A	22	7.5	Ø26.7 * L762	0.27
PVST818-4.5W-180-**K, PVST818-4.5WD-180-**K	120-277Vac, 50/60Hz, 0.04A	12	4.5	Ø26.7 * L457.2	0.18
PVST812-3W-180-**K, PVST812-3WD-180-**K	120-277Vac, 50/60Hz, 0.03A	9	3	Ø26.7 * L304.8	0.13
Model No.	Max. input current	LED quantities (pcs)	Input Wattage (W)	Dimension D * L(mm)	Weight (kg)
PVT8-18IND21-7W-%%-360-**K	0.064A	24	7W	Φ28.9*401.7	0.167
PVT8-24ND21-10W-%%-360-**K	0.097A	36	10W	Φ28.9*553.1	0.224
PVT8-30IND21-13W-%%-360-**K	0.111A	44	13W	Φ28.9*706.5	0.279
PVT8-36ND21-16W-%%-360-**K	0.149A	54	16W	Φ28.9*858.9	0.335
PVT8-42IND21-18W-%%-360-**K	0.142A	60	18W	Φ28.9*1011.3	0.381
PVT8-48IND21-21W-%%-360-**K	0.171A	66	21W	Φ28.9*1163.7	0.437
PVT8-60IND21-26W-%%-360-**K	0.222A	88	26W	Φ28.9*1468.5	0.548
PVT8-64IND21-28W-%%-360-**K	0.247A	96	28W	Φ28.9*1570.1	0.621
PVT8-72IND21-31W-%%-360-**K	0.290A	108	31W	Φ28.9*1773.3	0.694
PVT8-84IND21-37W-%%-360-**K	0.314A	120	37W	Φ28.9*2078.1	0.785
PVT8-96IND21-42W-%%-360-**K	0.355A	132	42W	Φ28.9*2382.9	0.9
PVT8-108IND21-47W-%%-360-**K	0.376A	160	47W	Φ28.9*2687.7	0.99

2.0 Product Description

Model No.	Max. input current	LED quantities (pcs)	Input Wattage (W)	Dimension D * L(mm)	Weight (kg)
PVT8-117IND21-50W-%%-360-**K	0.434A	176	50W	Φ28.9*2916.3	1.08
PVT8-120IND21-52W-%%-360-**K	0.444A	176	52W	Φ28.9*2992.5	1.09

Model No.	Alternative model No. 1
PVST842-21W-360-**K	PJST842-21W-360-**K
PVST830-15W-360-**K	PJST830-15W-360-**K
PVST818-9W-360-**K	PJST818-9W-360-**K
PVST812-6W-360-**K	PJST812-6W-360-**K
PVST842-10.5W-180-**K	PJST842-10.5W-180-**K
PVST830-7.5W-180-**K	PJST830-7.5W-180-**K
PVST818-4.5W-180-**K	PJST818-4.5W-180-**K
PVST812-3W-180-**K	PJST812-3W-180-**K
PVST842-21WD-360-**K	PJST842-21WD-360-**K
PVST830-15WD-360-**K	PJST830-15WD-360-**K
PVST818-9WD-360-**K	PJST818-9WD-360-**K
PVST812-6WD-360-**K	PJST812-6WD-360-**K
PVST842-10.5WD-180-**K	PJST842-10.5WD-180-**K
PVST830-7.5WD-180-**K	PJST830-7.5WD-180-**K
PVST818-4.5WD-180-**K	PJST818-4.5WD-180-**K
PVST812-3WD-180-**K	PJST812-3WD-180-**K

Ratings	120-277Vac, 60Hz, for input current and power, refer to above table
Other Ratings	ta: 45°C
	The product covered by this report shall only be used with existing listed lighting fixture.

Models	Min. lamp compartment size(mm)	Min.distance between tubes installation lighting sign(mm)	Max. no. of interconnected unit
PVST842-21W-360-**K, PVST842-21WD-360-**K, PVST842-10.5W-180-**K, PVST842-10.5WD-180-**K	1218×150×65	100	20
PVST830-15W-360-**K, PVST830-15WD-360-**K, PVST830-7.5W-180-**K, PVST830-7.5WD-180-**K	920×150×65	100	20
PVST818-9W-360-**K, PVST818-9WD-360-**K, PVST818-4.5W-180-**K, PVST818-4.5WD-180-**K	623×150×65	100	20
PVST812-6W-360-**K, PVST812-6WD-360-**K, PVST812-3W-180-**K, PVST812-3WD-180-**K	462×150×65	100	20

2.0 Product Description

Models	Min. lamp compartment size(mm)	Min.distance between tubes installation lighting sign(mm)	LED Driver
PVT8-18IND21-7W-%%-360-**K	500*160*120	100	1pcs of PVD-T8D21-7W-01
PVT8-24ND21-10W-%%-360-**K	650*160*120	100	1pcs of PVD-T8D21-10W-01
PVT8-30IND21-13W-%%-360-**K	810*160*120	100	1pcs of PVD-T8D21-13W-01
PVT8-36ND21-16W-%%-360-**K	960*160*120	100	1pcs of PVD-T8D21-16W-01
PVT8-42IND21-18W-%%-360-**K	1110*160*120	100	1pcs of PVD-T8D21-18W-01
PVT8-48IND21-21W-%%-360-**K	1260*160*120	100	1pcs of PVD-T8D21-21W-01
PVT8-60IND21-26W-%%-360-**K	1570*160*120	100	1pcs of PVD-T8D21-26W-01
PVT8-64IND21-28W-%%-360-**K	1670*160*120	100	2pcs of PVD-T8D21-28W-01
PVT8-72IND21-31W-%%-360-**K	1870*160*120	100	2pcs of PVD-T8D21-31W-01
PVT8-84IND21-37W-%%-360-**K	2180*160*120	100	2pcs of PVD-T8D21-37W-01
PVT8-96IND21-42W-%%-360-**K	2480*160*120	100	2pcs of PVD-T8D21-42W-01
PVT8-108IND21-47W-%%-360-**K	2790*160*120	100	2pcs of PVD-T8D21-47W-01
PVT8-117IND21-50W-%%-360-**K	3020*160*120	100	2pcs of PVD-T8D21-50W-01
PVT8-120IND21-52W-%%-360-**K	3100*160*120	100	2pcs of PVD-T8D21-52W-01

3.0 Product Photographs

Photo 1 - External view for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

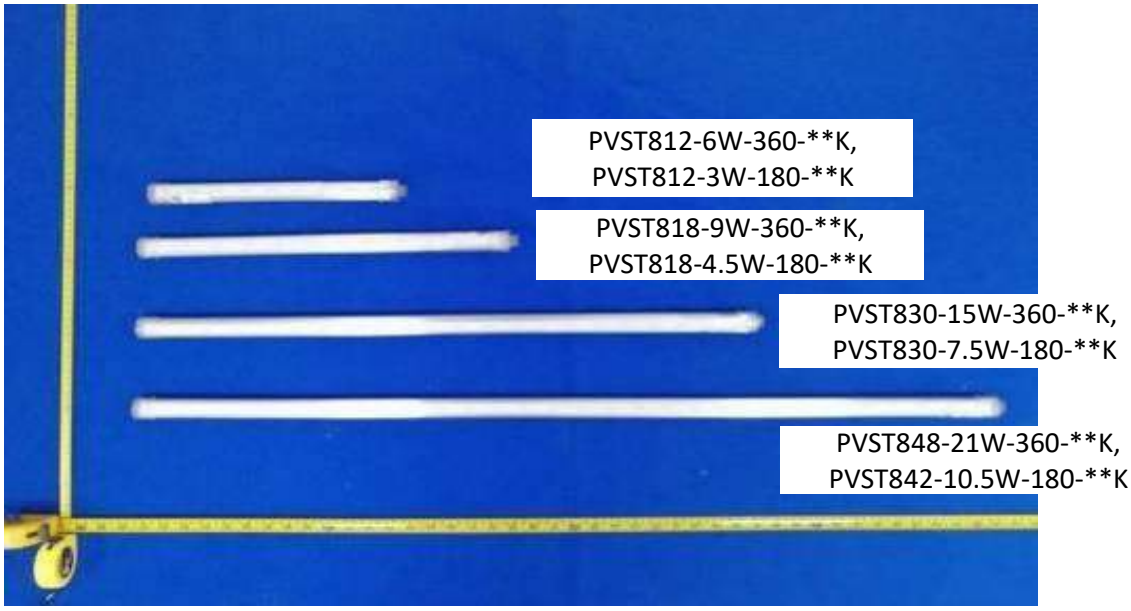
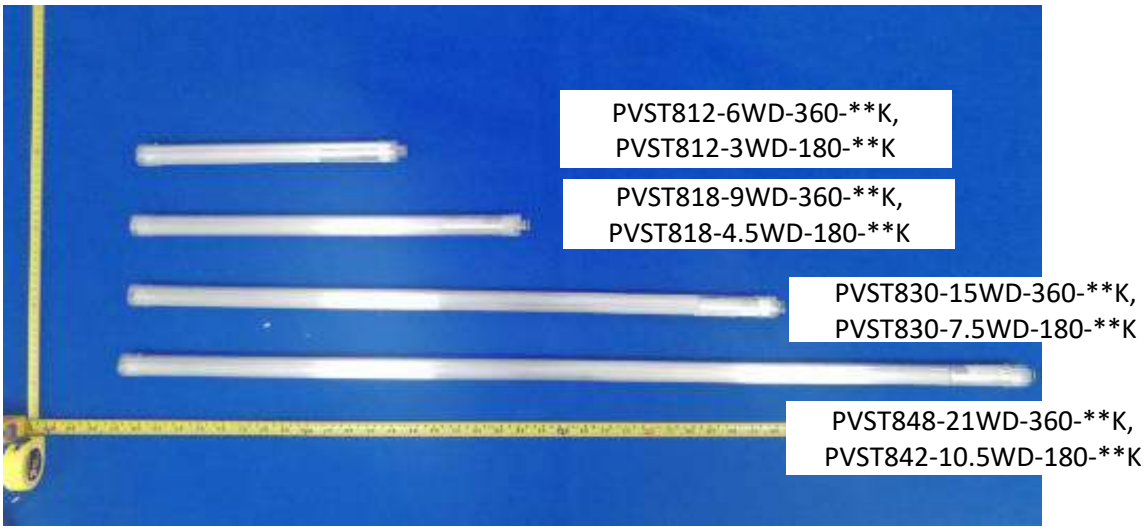


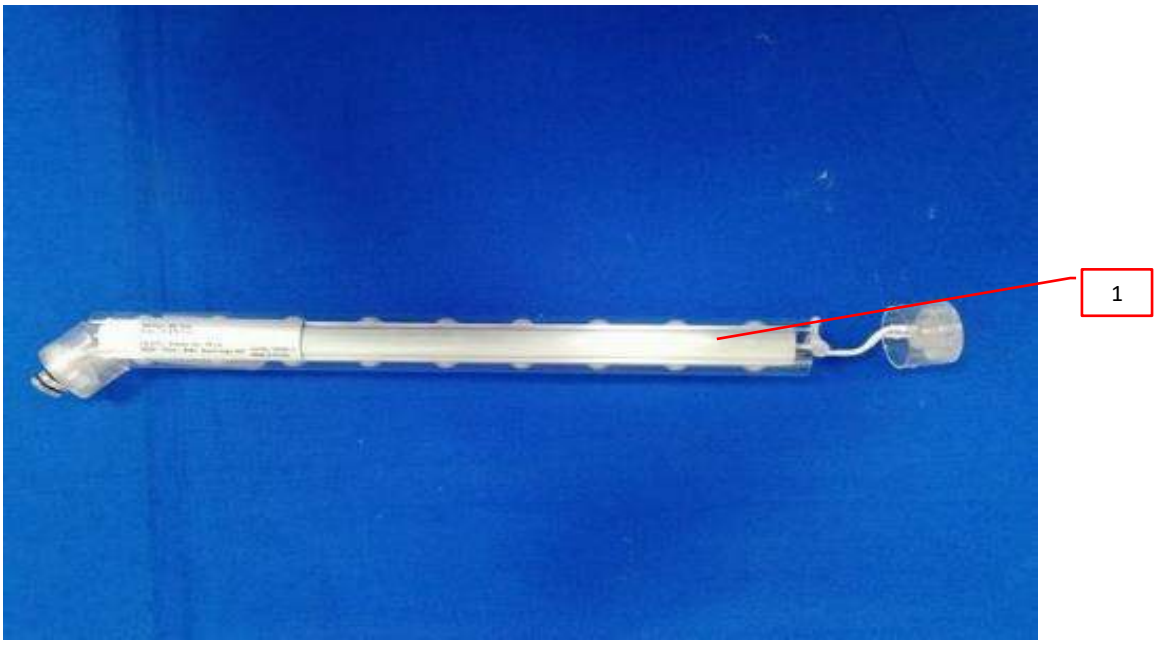
Photo 1a - External view for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K



3.0 Product Photographs

Photo 2 - External view for model PVST812-6WD-360-**K, also representing other models

Photo 3 - Internal view 1 for model PVST812-6WD-360-**K, also representing other models



3.0 Product Photographs

Photo 4 - Internal view 2 for model PVST812-6WD-360-**K, also representing other models

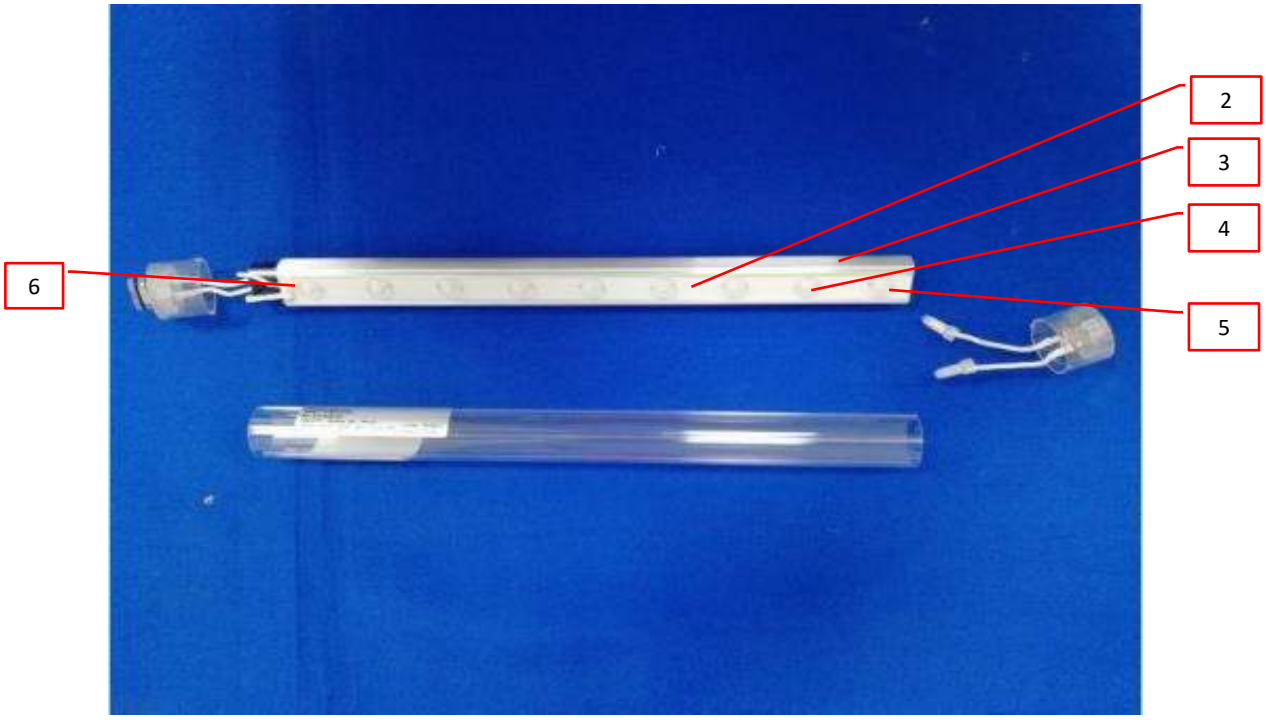
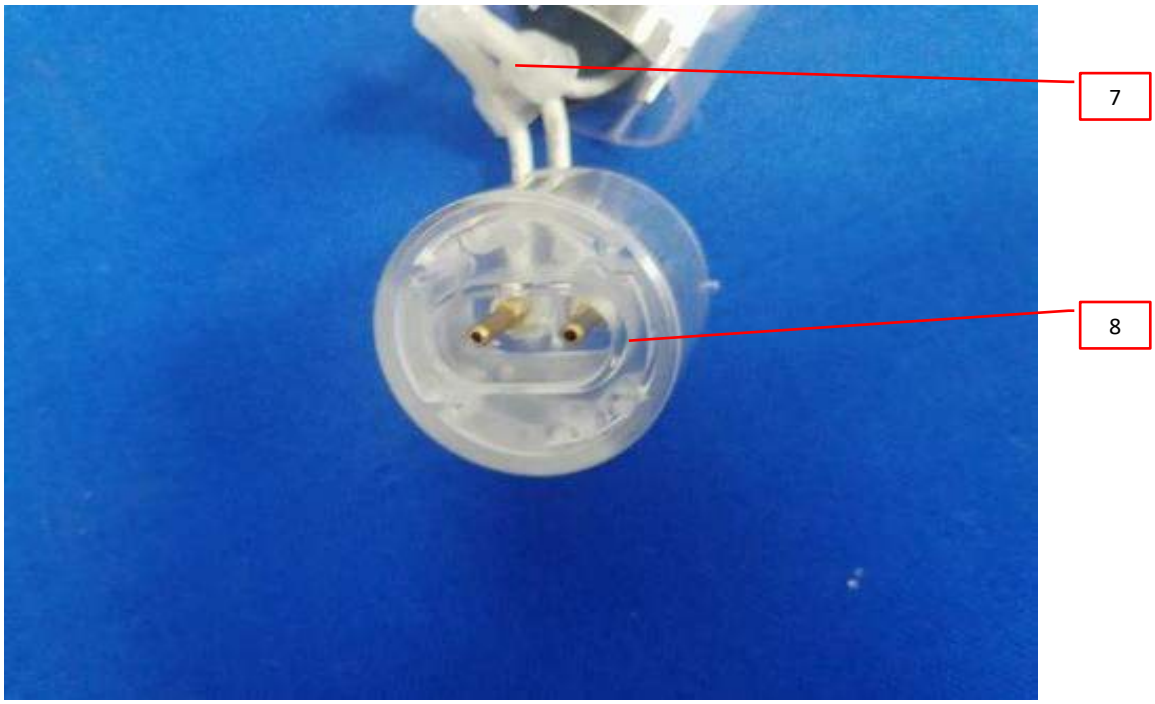


Photo 5 - Close-up view 1 of input connector for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K



3.0 Product Photographs

Photo 6 - Close-up view 2 of input connector for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

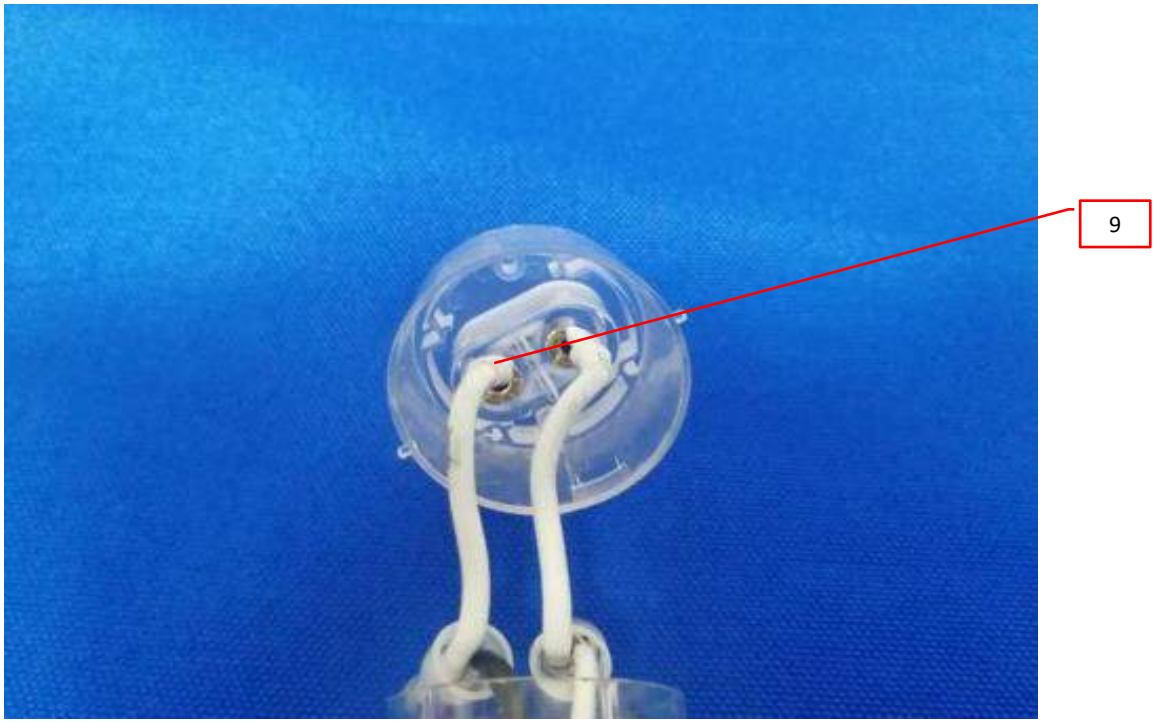


Photo 7 - Close-up view 1 of output connector for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

3.0 Product Photographs

Photo 8 - Close-up view 2 of output connector for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

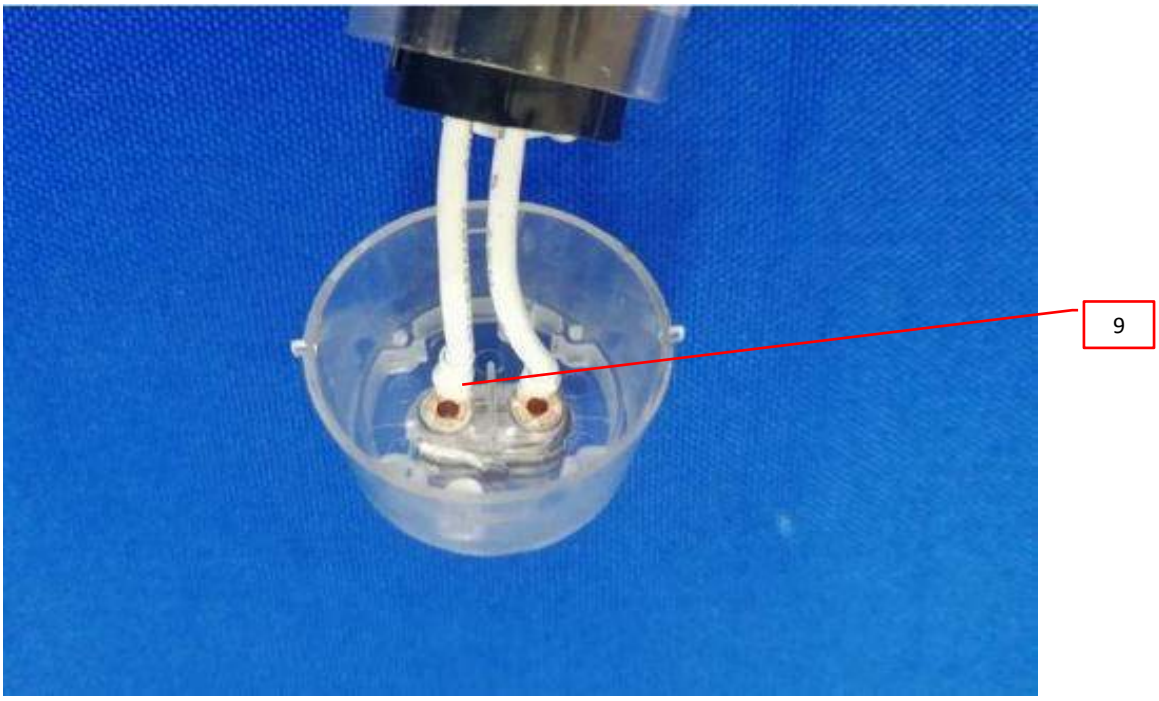
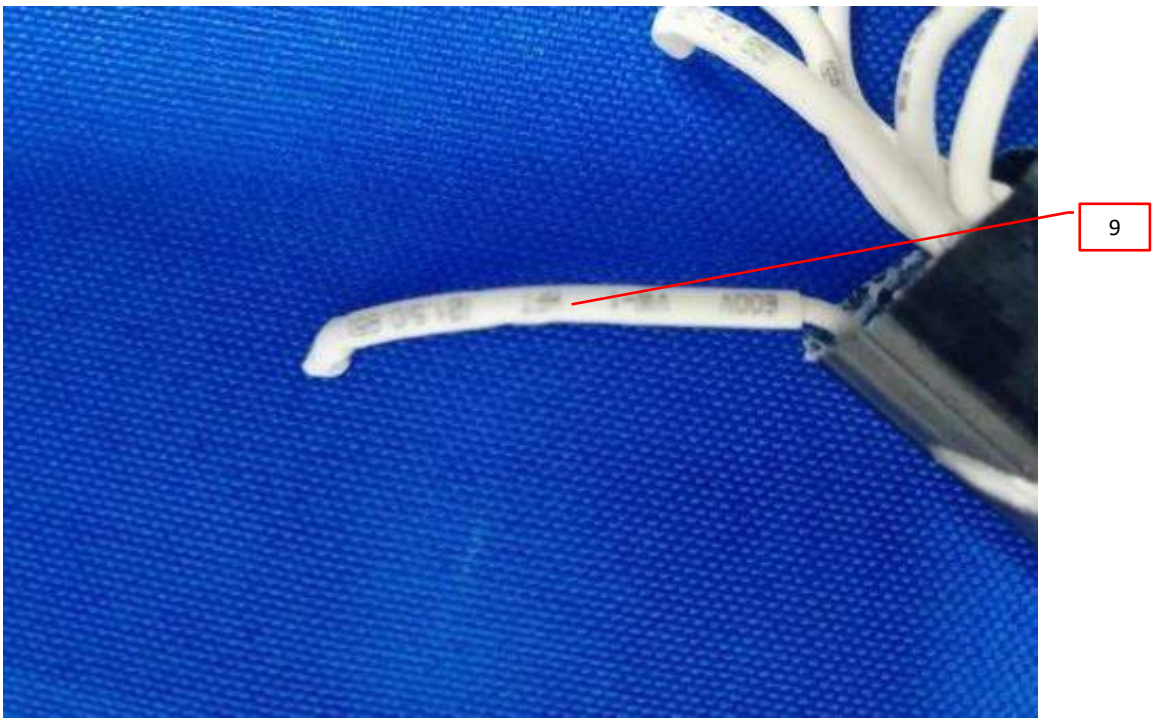


Photo 9 - Heat-shrinkable tubing view for all models



3.0 Product Photographs

Photo 10 - LED driver view for all models

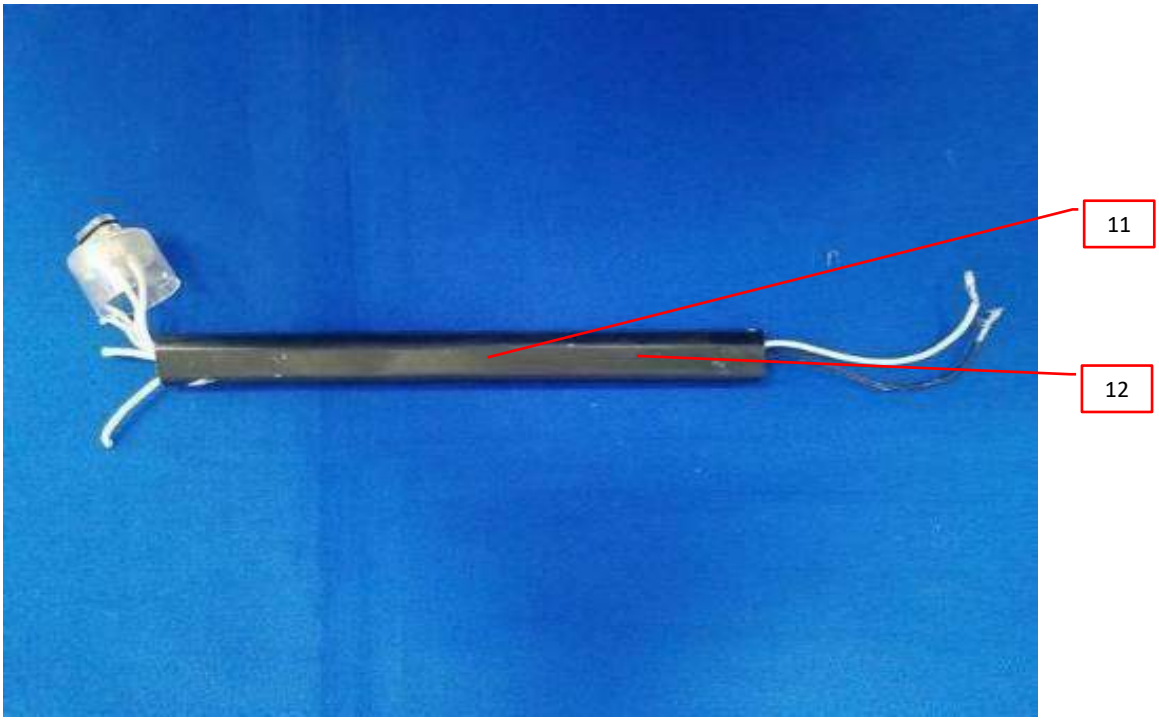
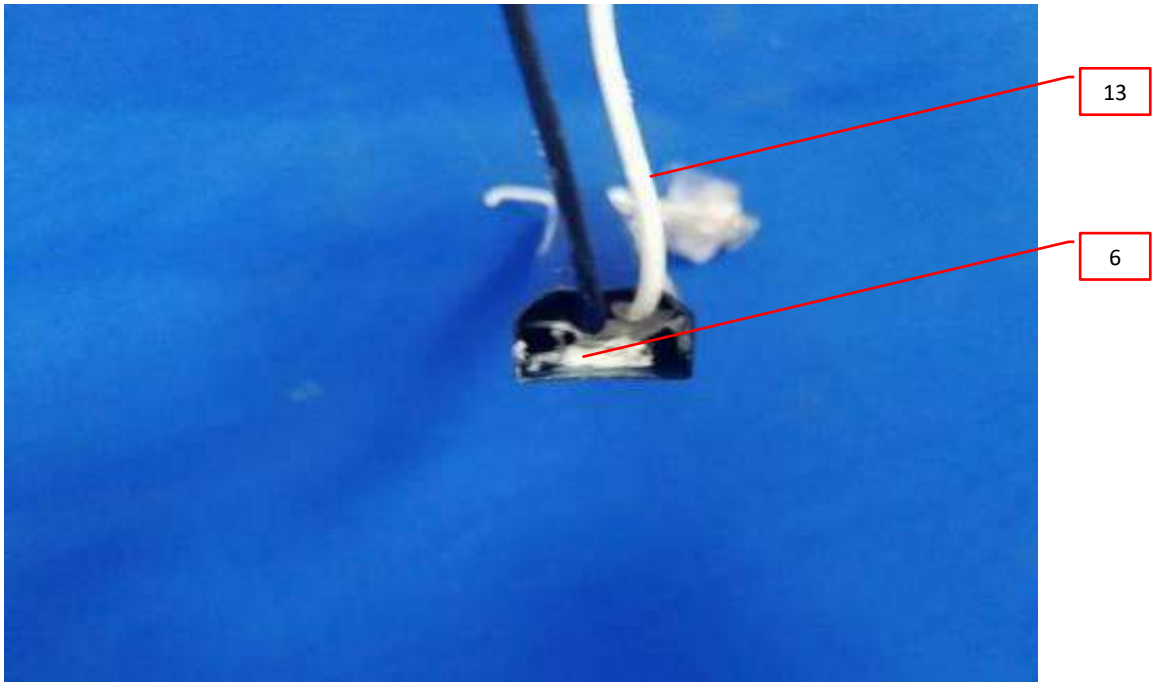


Photo 11 - Side view of LED driver for all models



3.0 Product Photographs

Photo 12 - Top view of LED driver for model PVST842-21W-360-**K

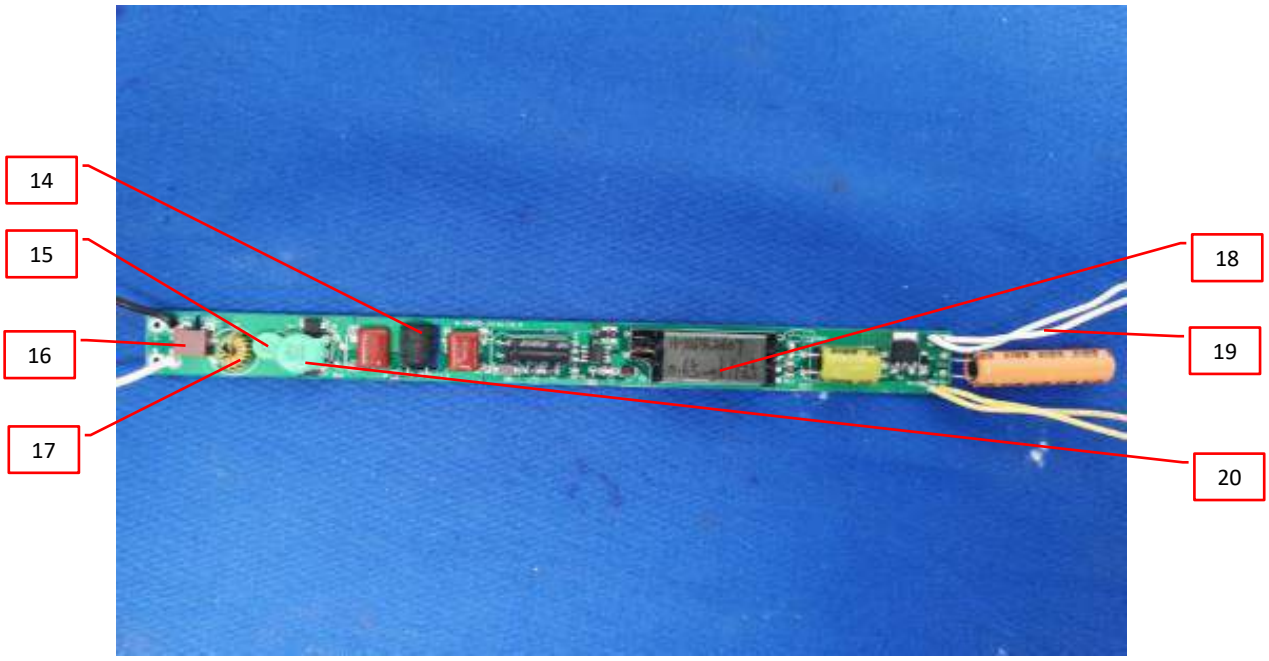
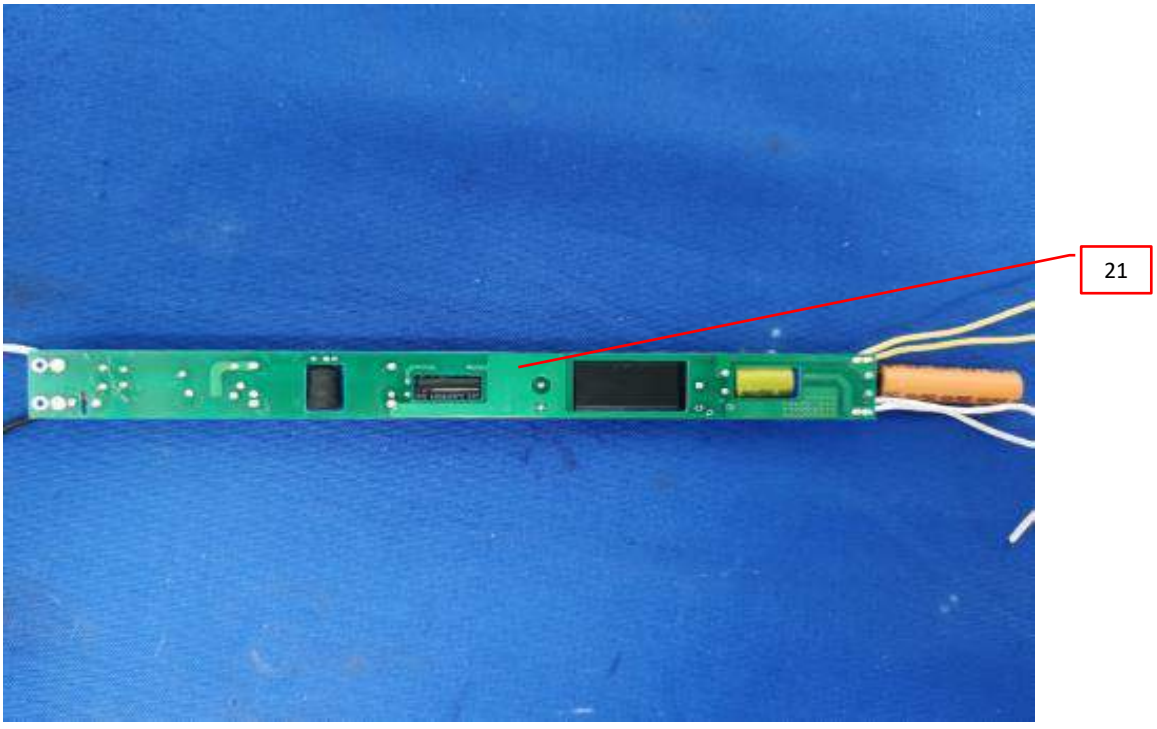


Photo 13 - Bottom view of LED driver for model PVST842-21W-360-**K



3.0 Product Photographs

Photo 14 - Top view of LED driver for model PVST830-15W-360-**K, PVST842-10.5W-180-**K

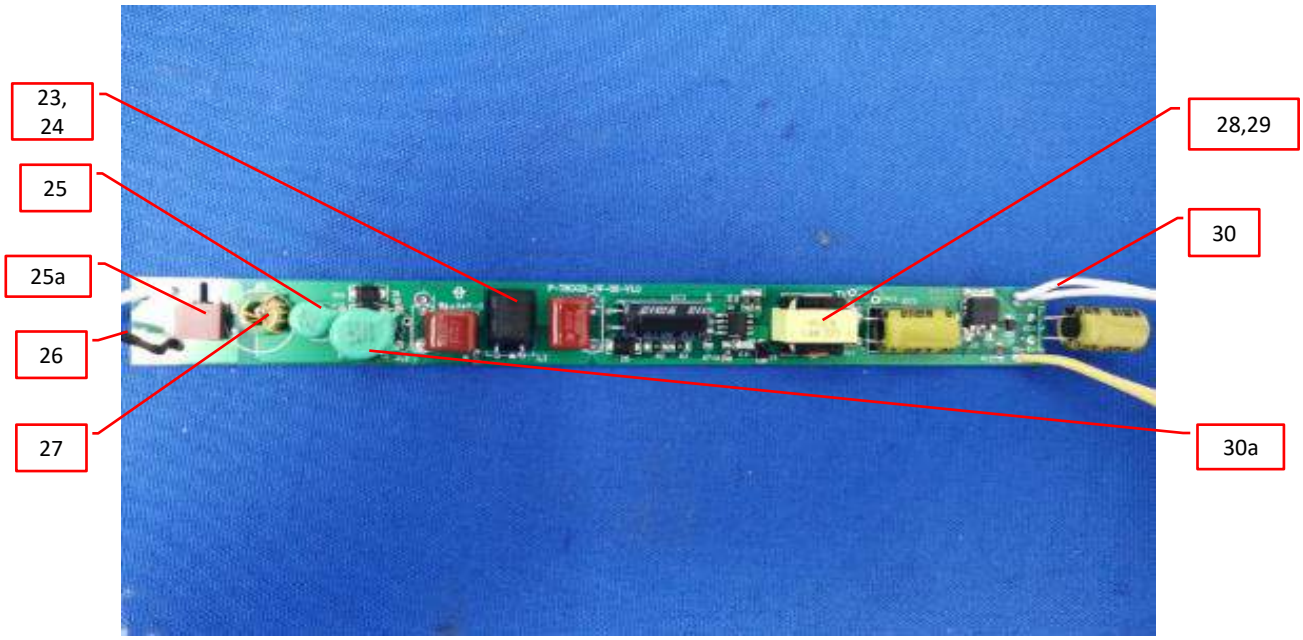
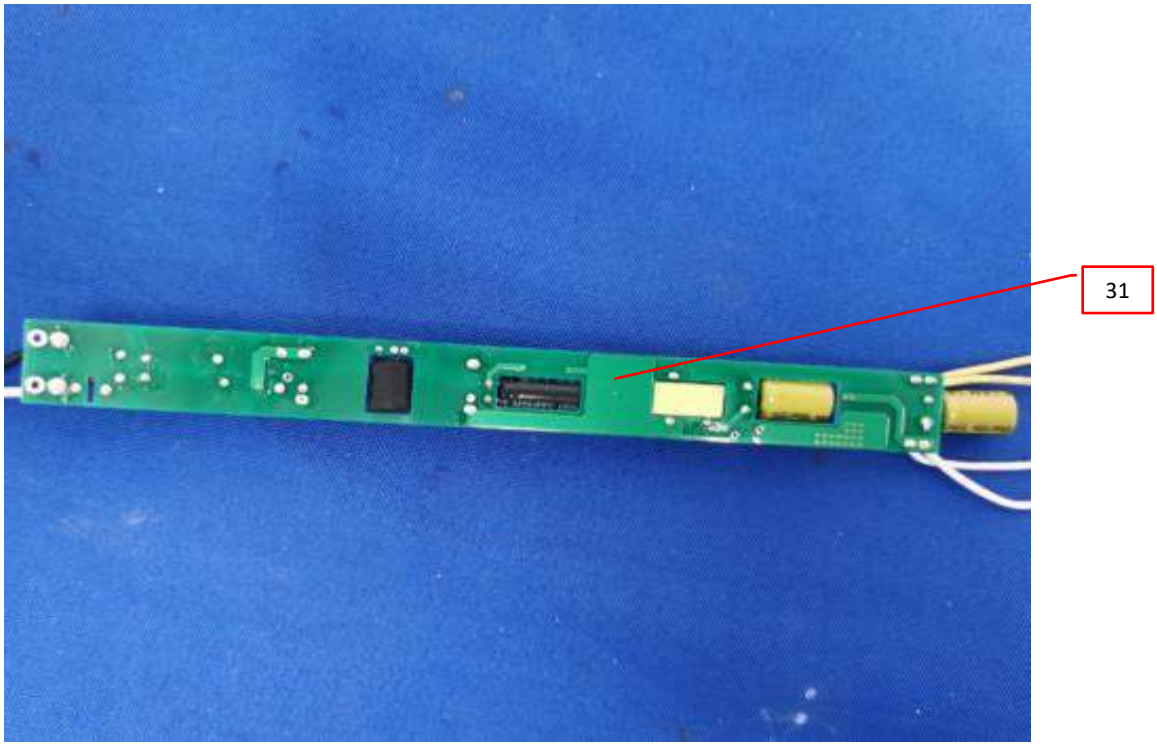


Photo 15 - Bottom view of LED driver for model PVST830-15W-360-**K, PVST842-10.5W-180-**K



3.0 Product Photographs

Photo 16 - Top view of LED driver for model PVST818-9W-360-**K, PVST830-7.5W-180-**K, PVST812-6W-360-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

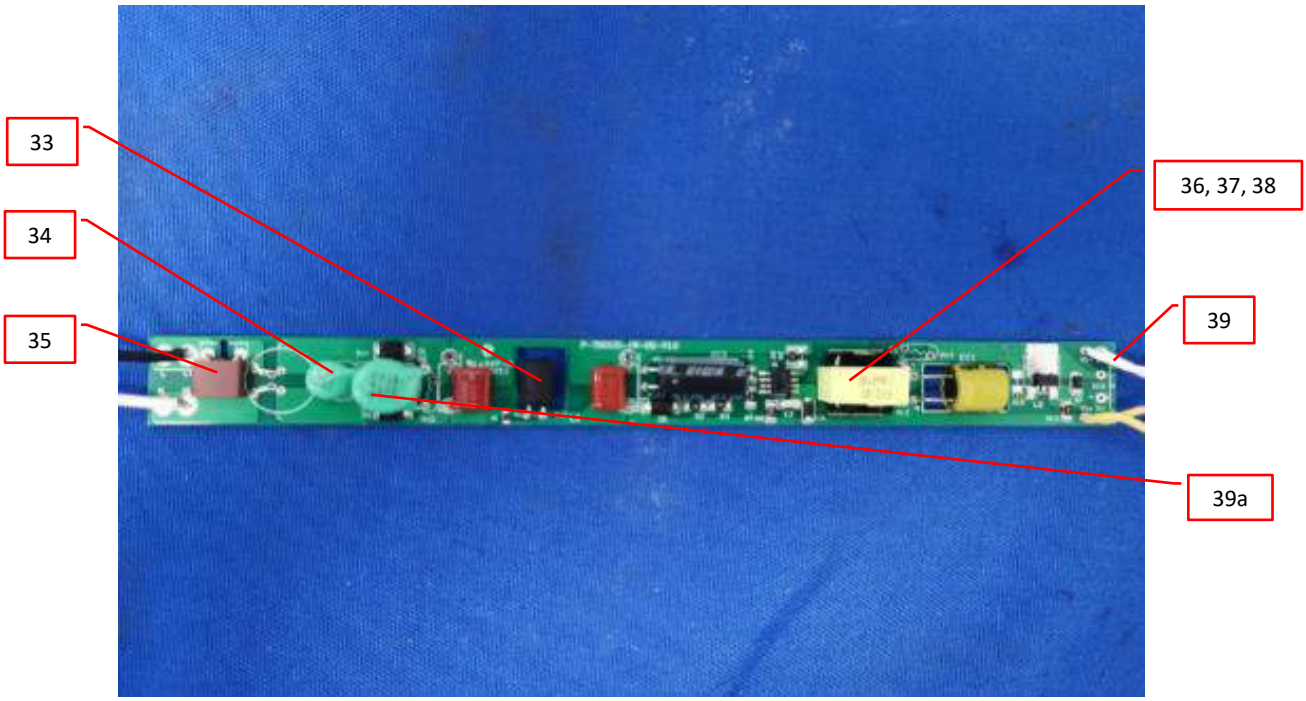
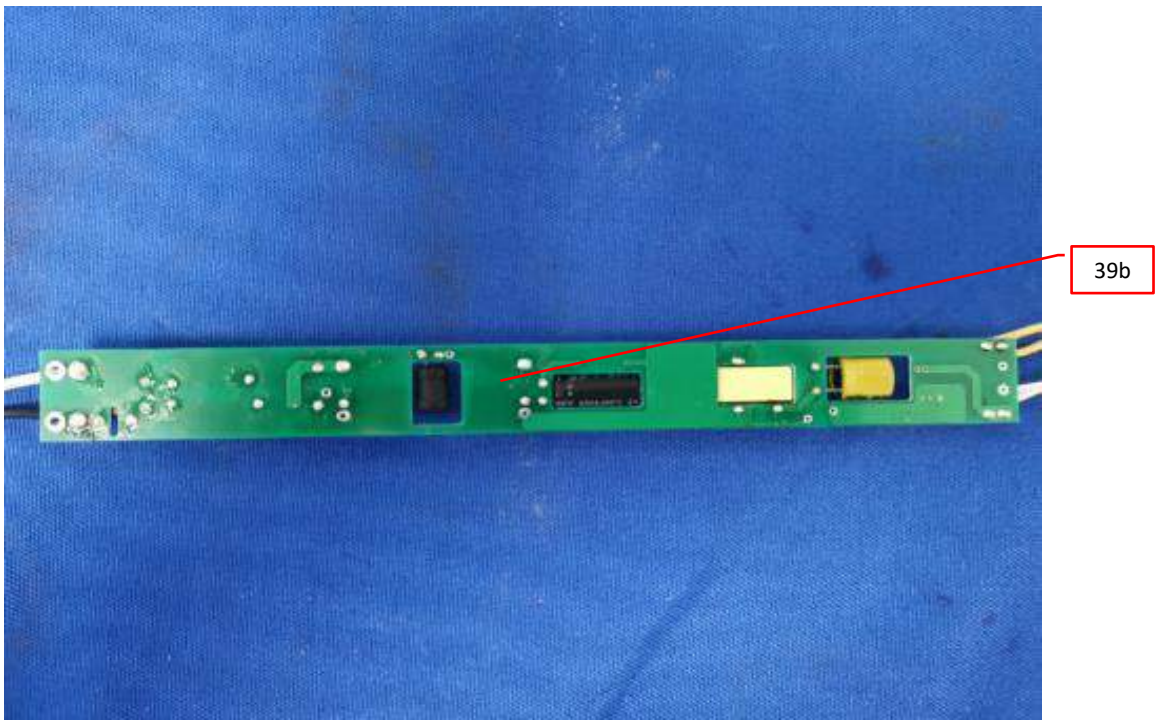


Photo 17 - Bottom view of LED driver for model PVST818-9W-360-**K, PVST830-7.5W-180-**K, PVST812-6W-360-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K



3.0 Product Photographs

Photo 18 - Interconnected method 1 view for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

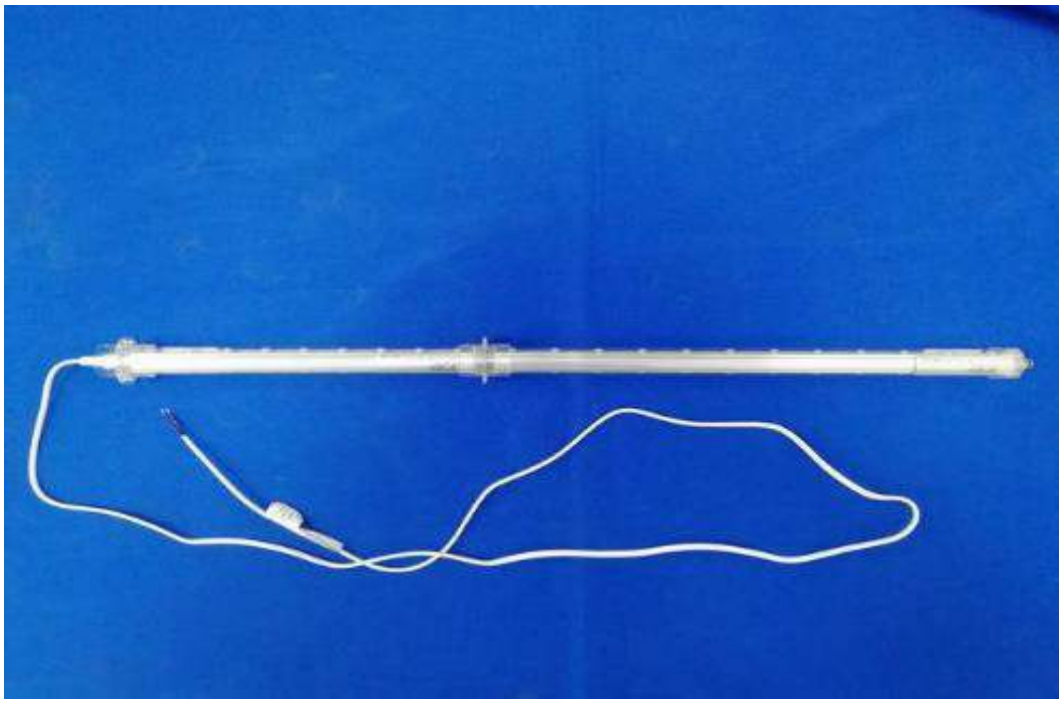
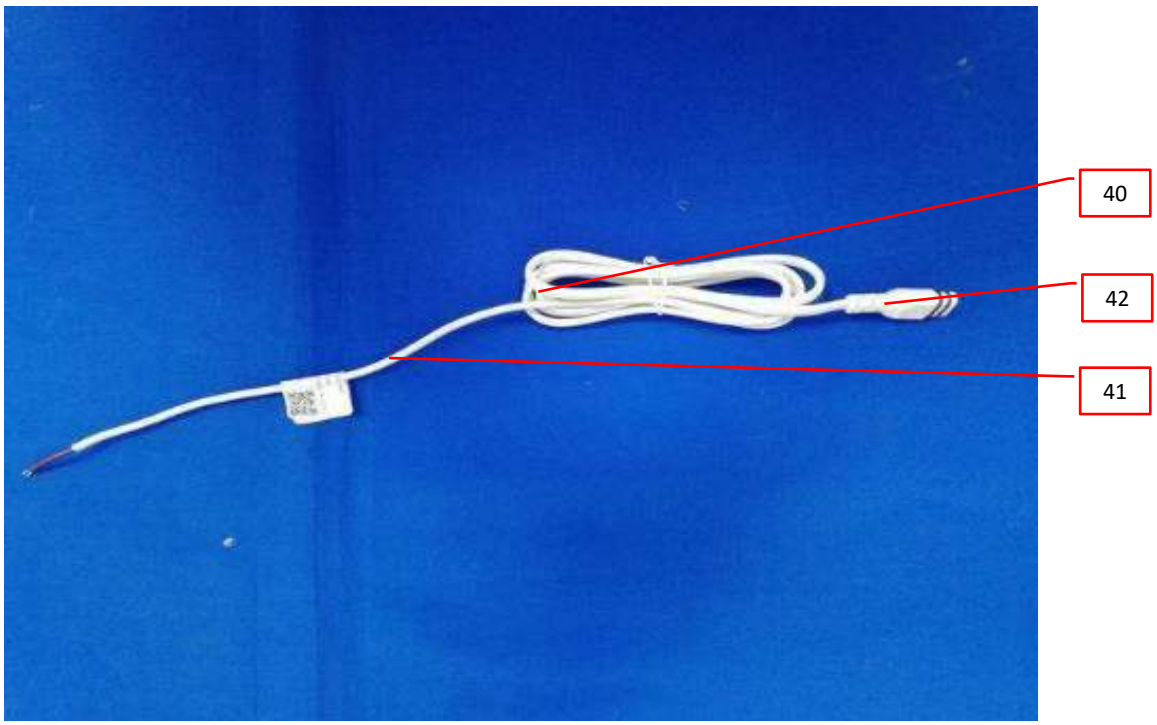


Photo 19 - Power cord set view for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K



3.0 Product Photographs

Photo 20 - Internal view of input cord connector for all models

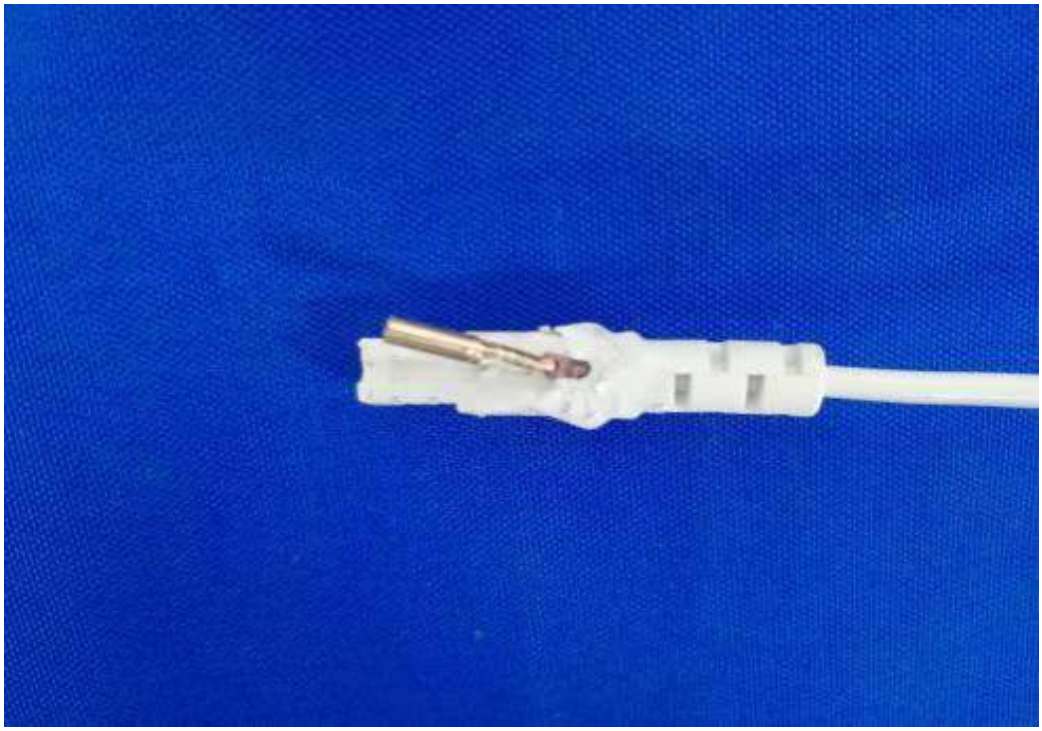


Photo 21 - Interconnected method 2 view for all models

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Photo 22 - External viewe of R17d End Cap1 for all models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

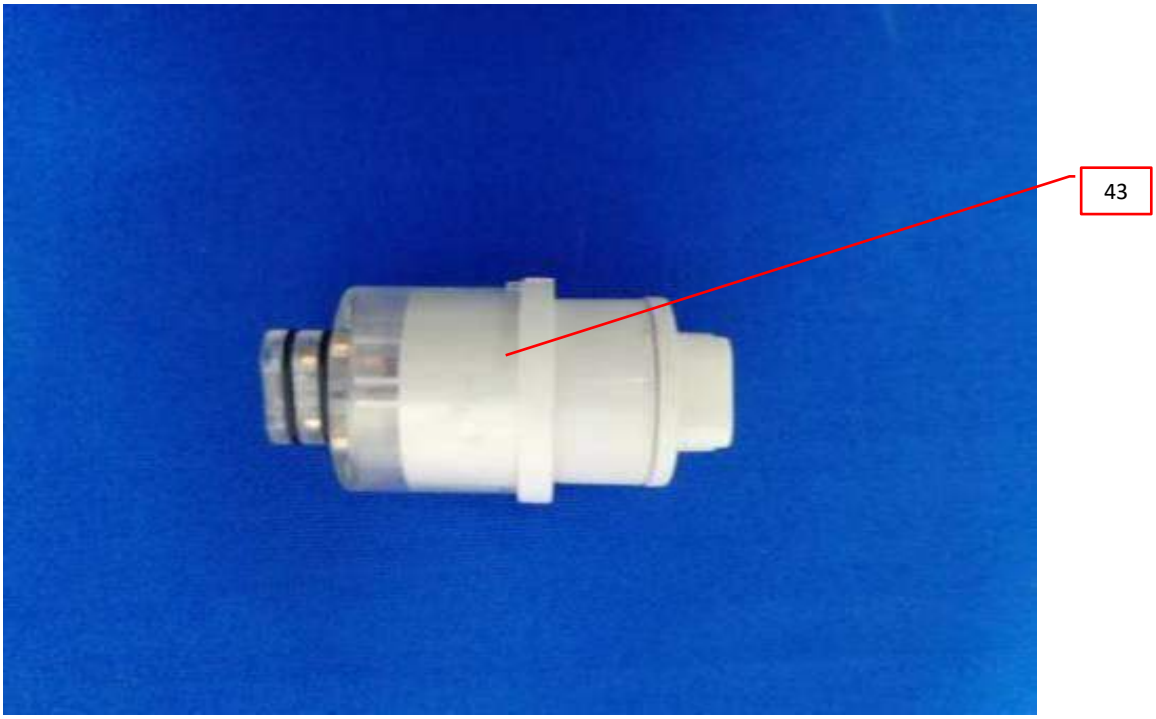

Photo 23 - Internal view of R17d End Cap1 for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

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Photo 24 - External view of R17d End Cap2 for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

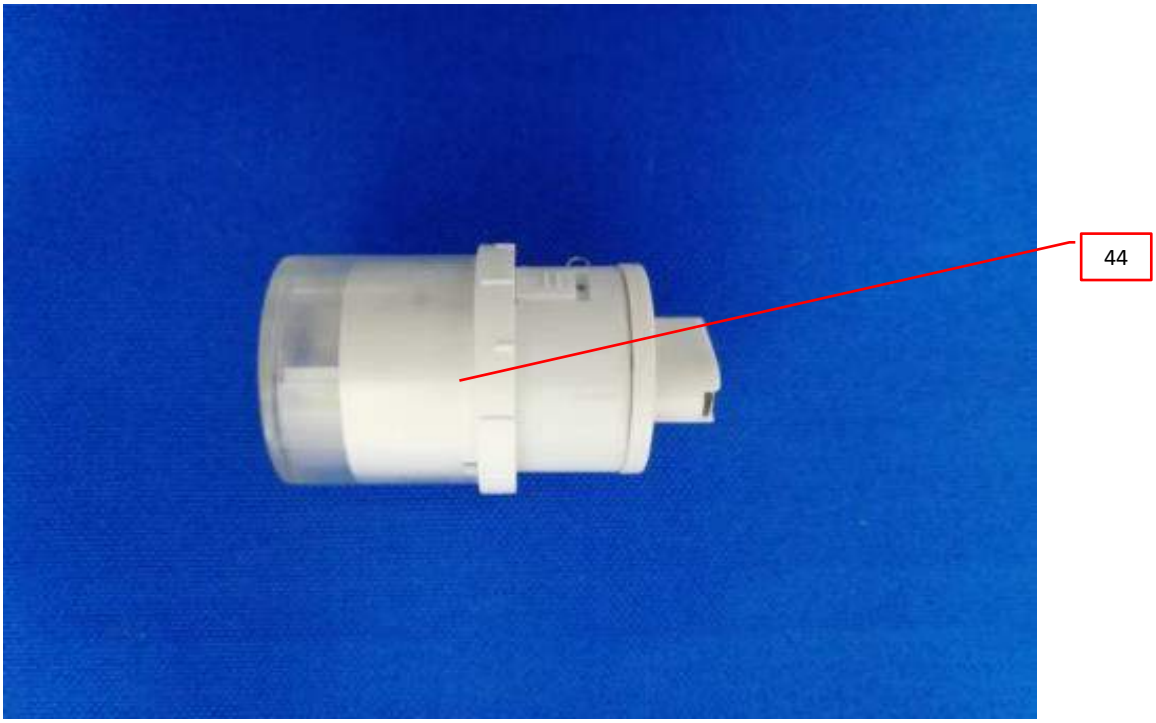

Photo 25 - Internal view of R17d End Cap2 for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

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Photo 26 - Accessories view for all models

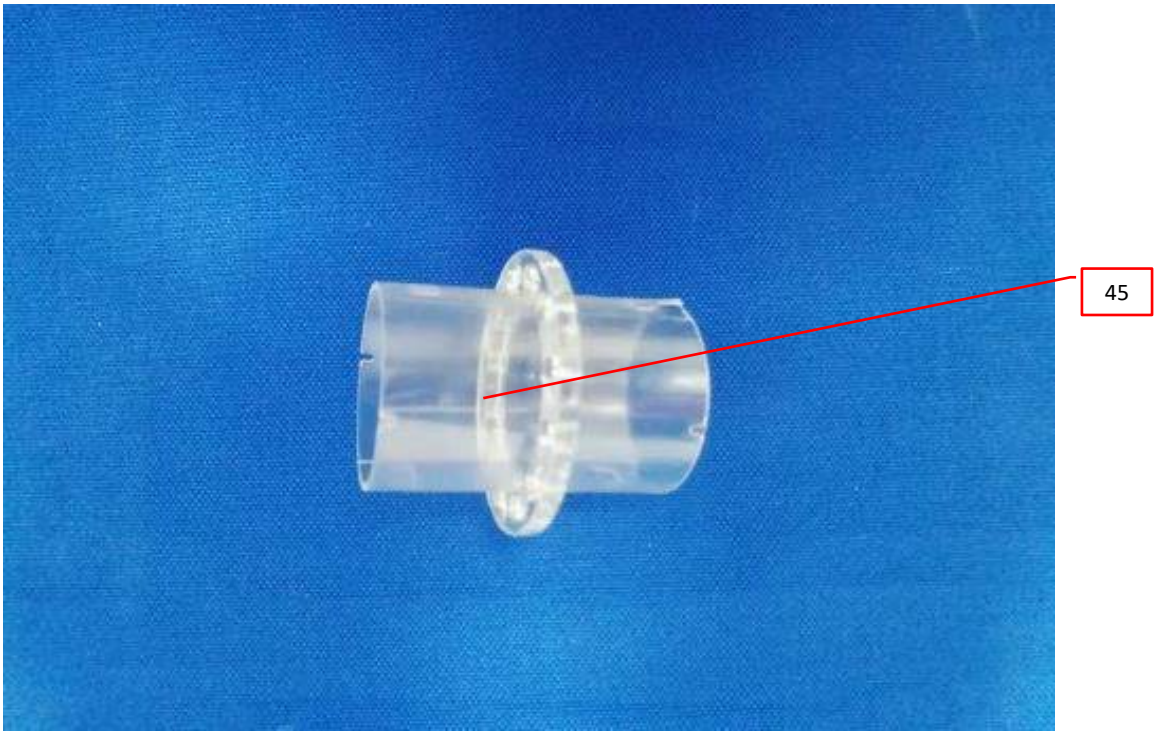

Photo 27 - Install fittings view for all models

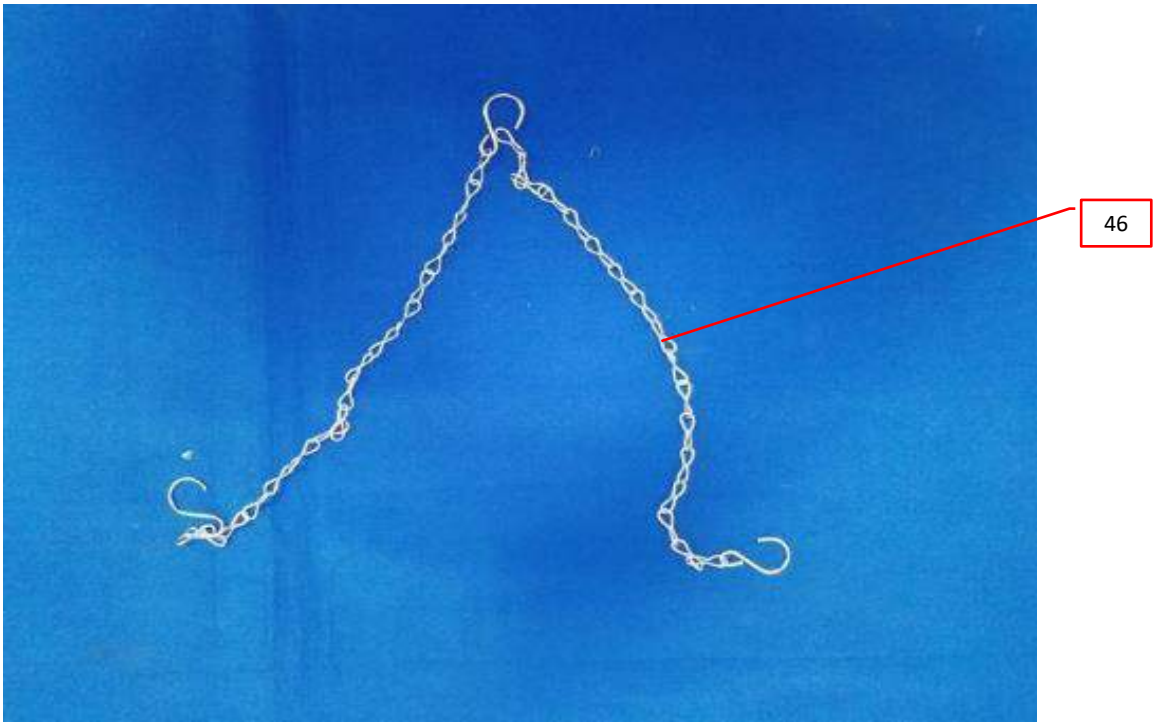

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Photo 28 - Top view of LED driver for model PVST842-21WD-360-**K

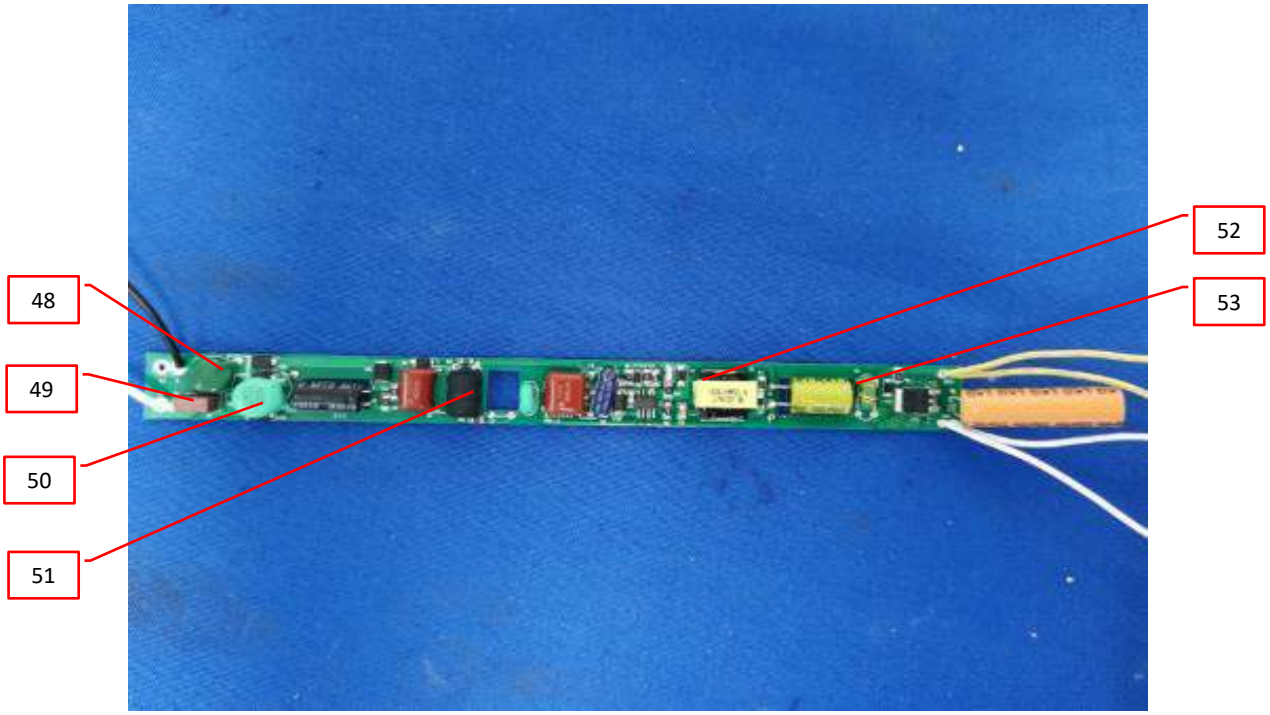

Photo 29 - Bottom view of LED driver for model PVST842-21WD-360-**K

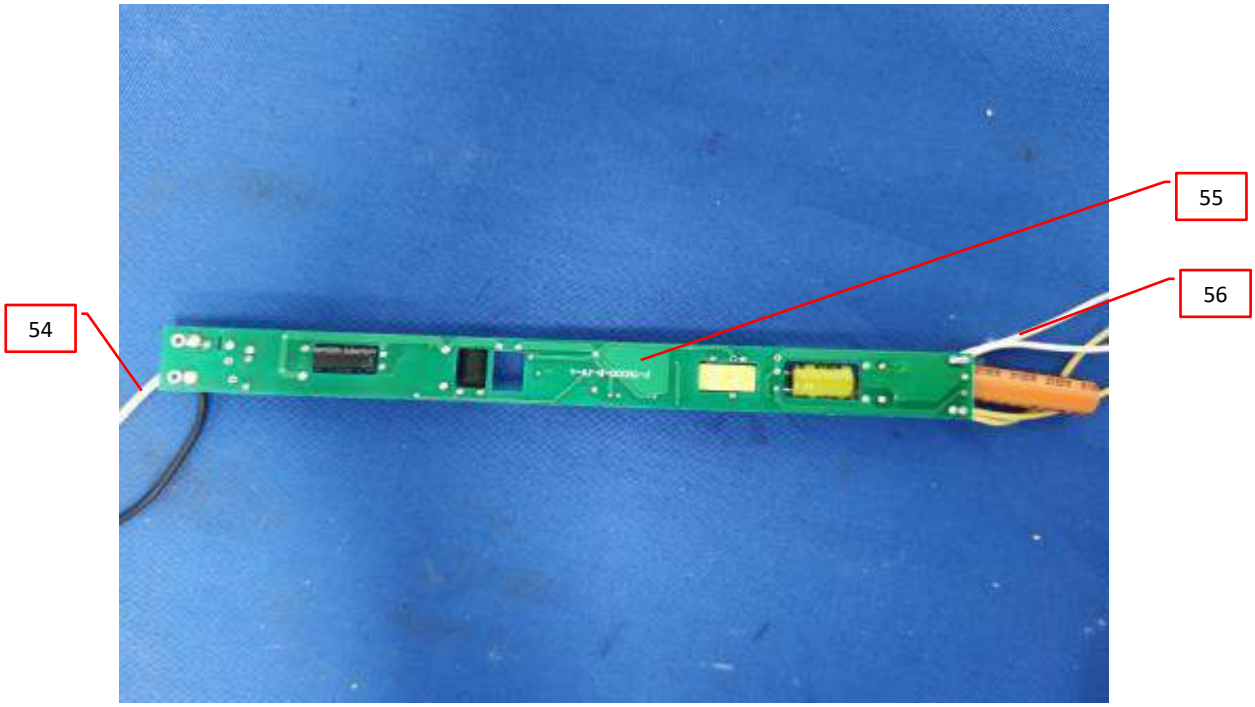

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Photo 30 - Top view of LED driver for model PVST830-15WD-360-**K

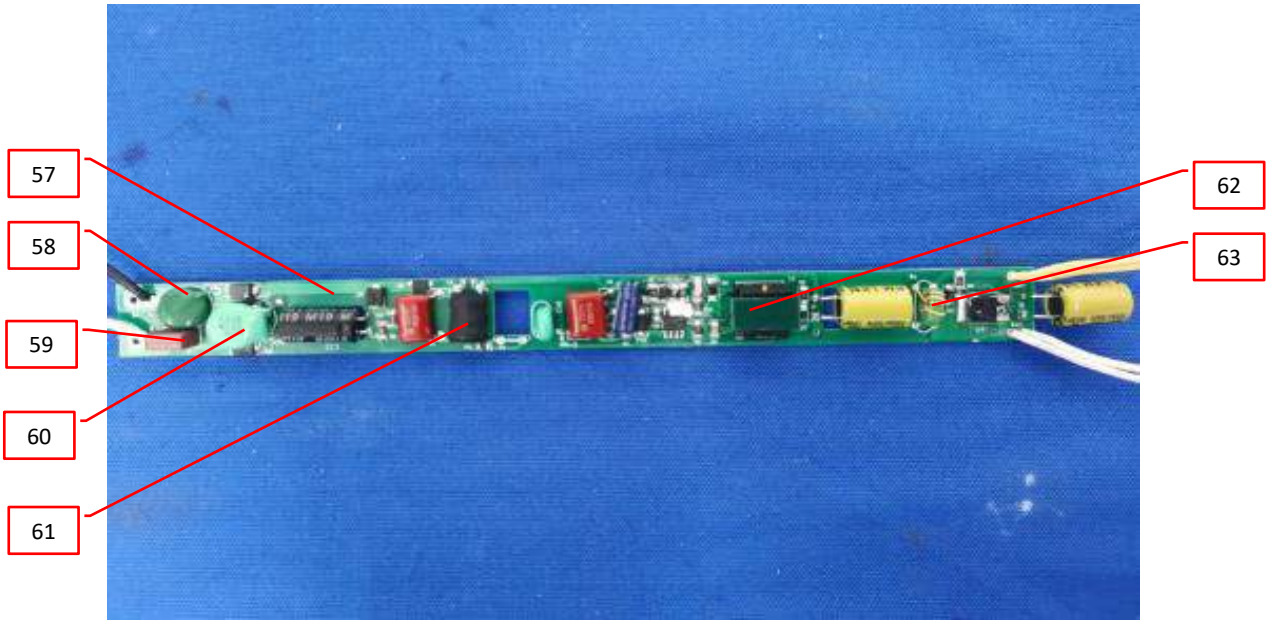
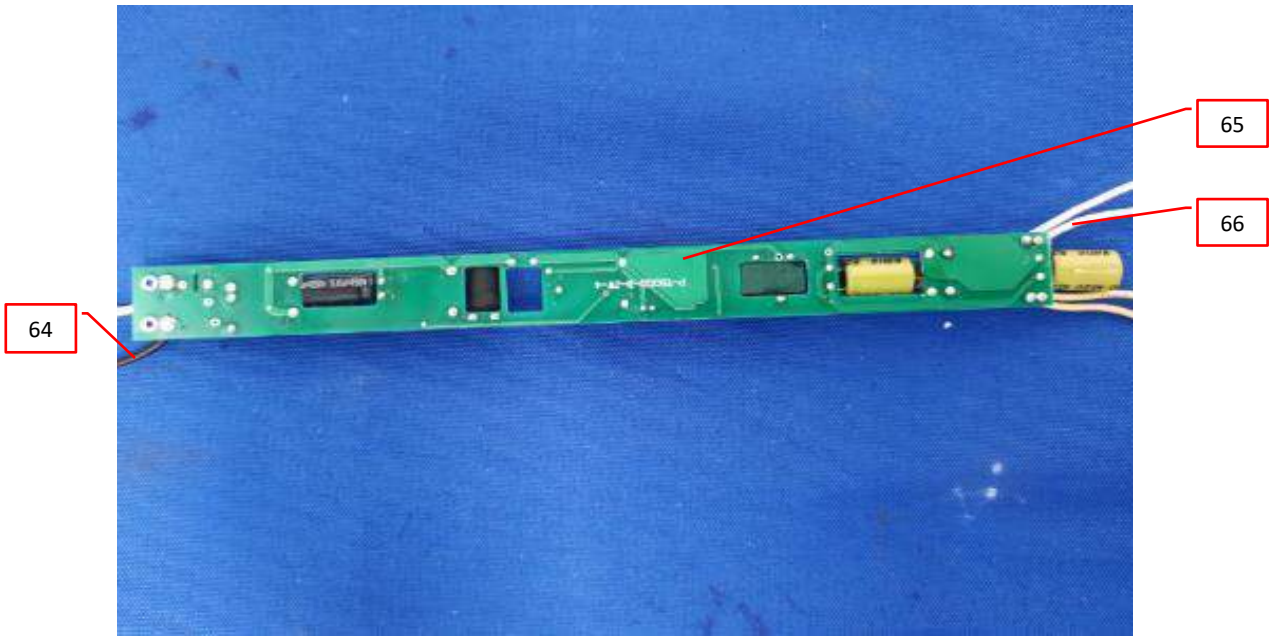


Photo 31 - Bottom view of LED driver for model PVST830-15WD-360-**K



3.0 Product Photographs

Photo 32 - Top view of LED driver for models PVST842-10.5WD-180-**K, PVST818-9WD-360-**K, PVST830-7.5WD-180-**K

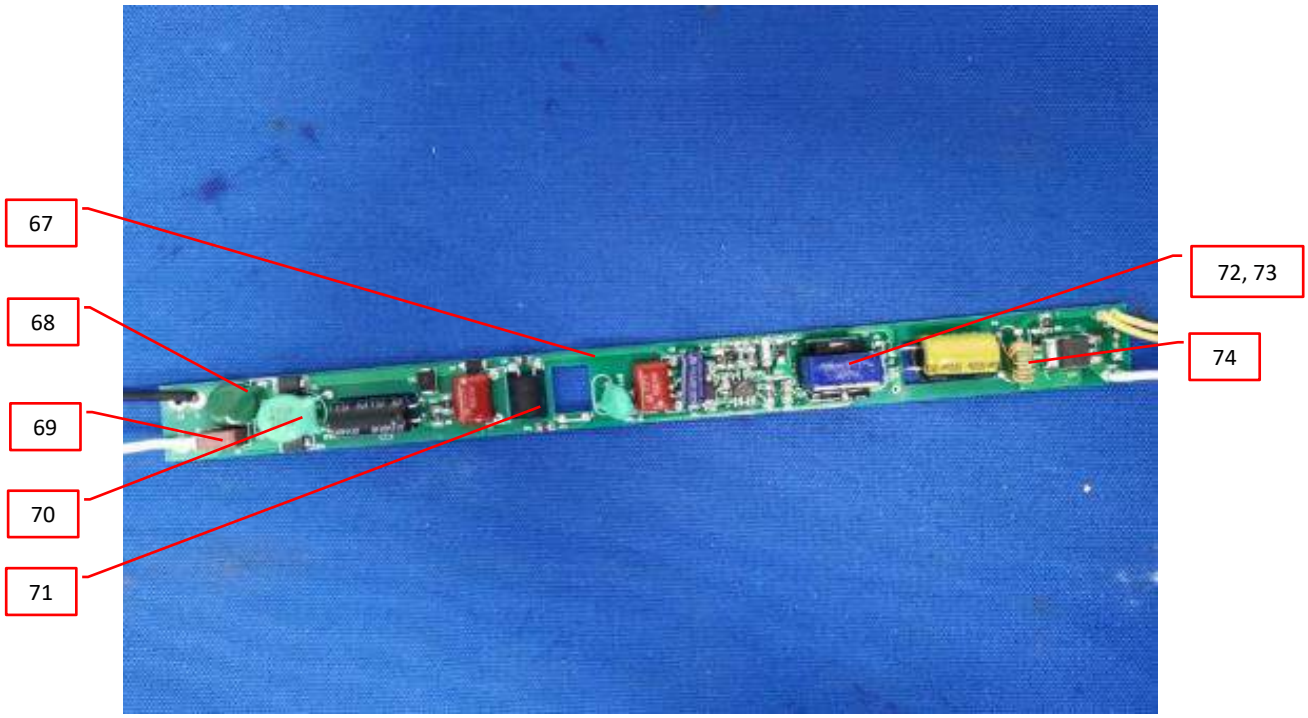


Photo 33 - Bottom view of LED driver for models PVST842-10.5WD-180-**K, PVST818-9WD-360-**K, PVST830-7.5WD-180-**K

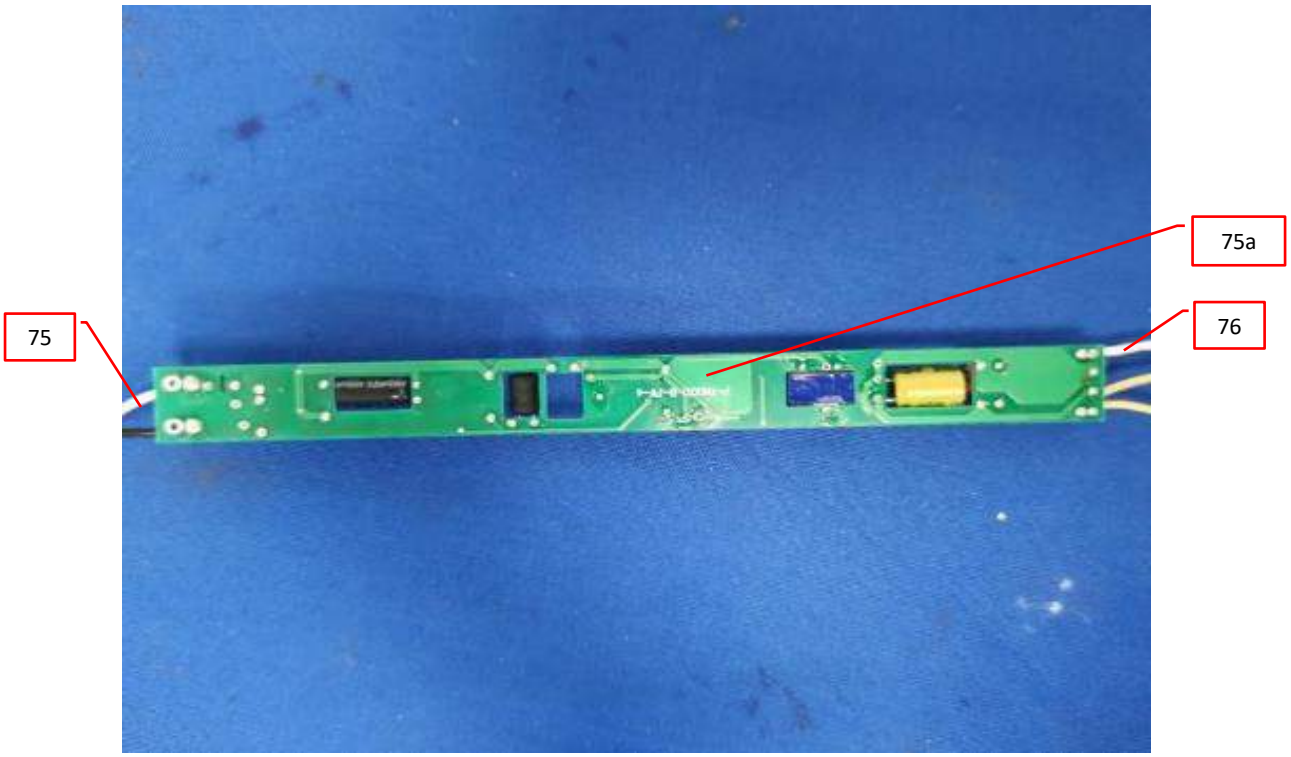


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Photo 34 - Top view of LED driver for models PVST812-6WD-360-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

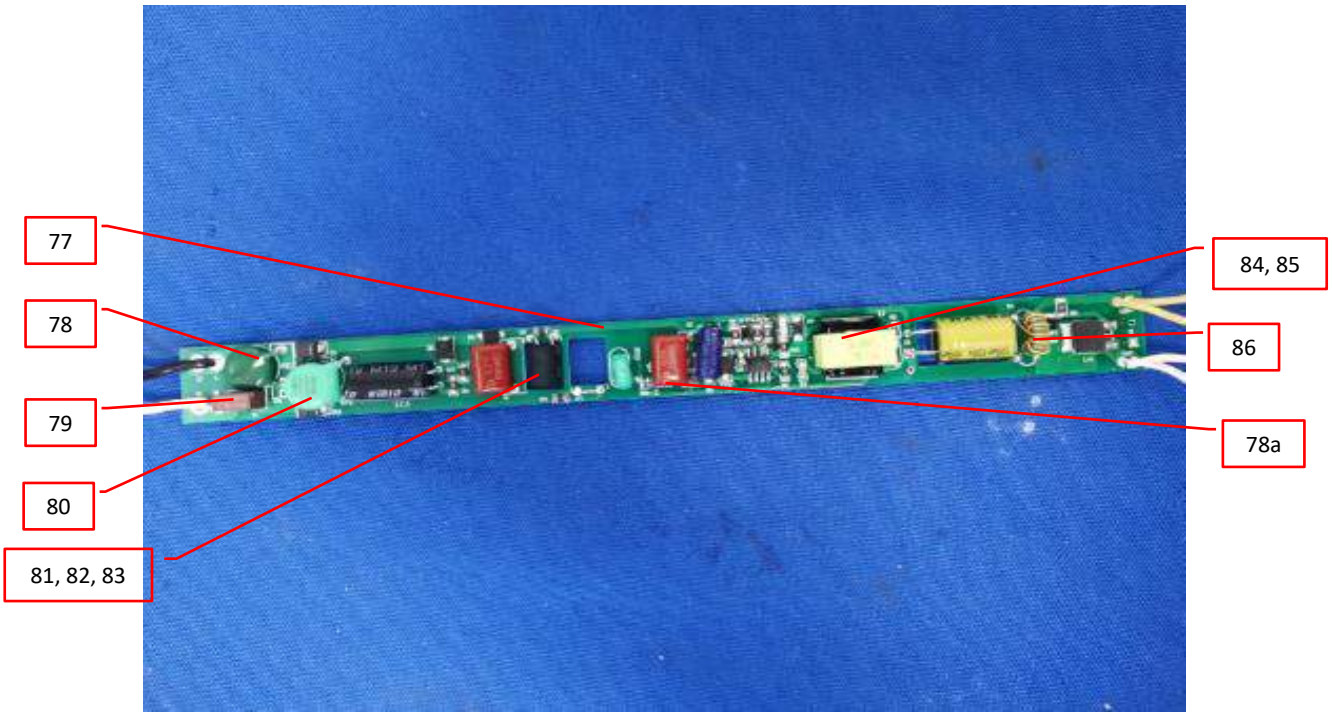

Photo 35 - Bottom view of LED driver for models PVST812-6WD-360-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

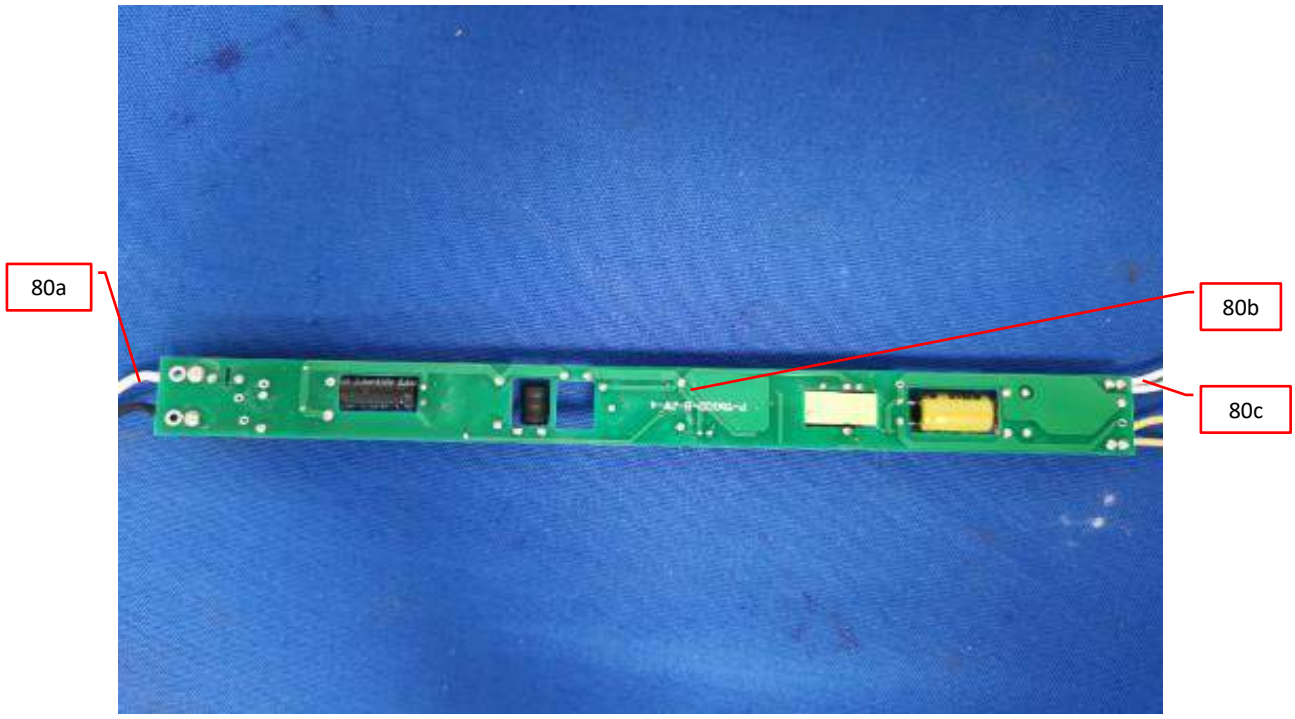

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Photo 36 - Power cord set view for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

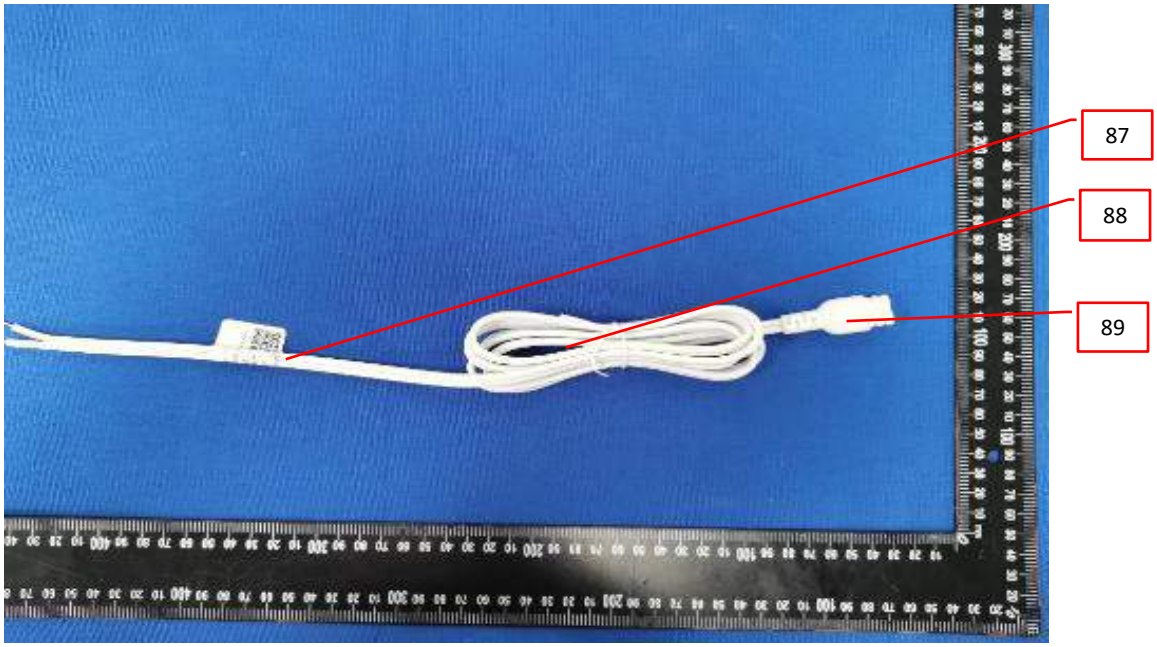

Photo 37 - Close-up connector view 1 of power cord set for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

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Photo 37a - Close-up connector view 2 of power cord set for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

Photo 38 - Input connector view for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

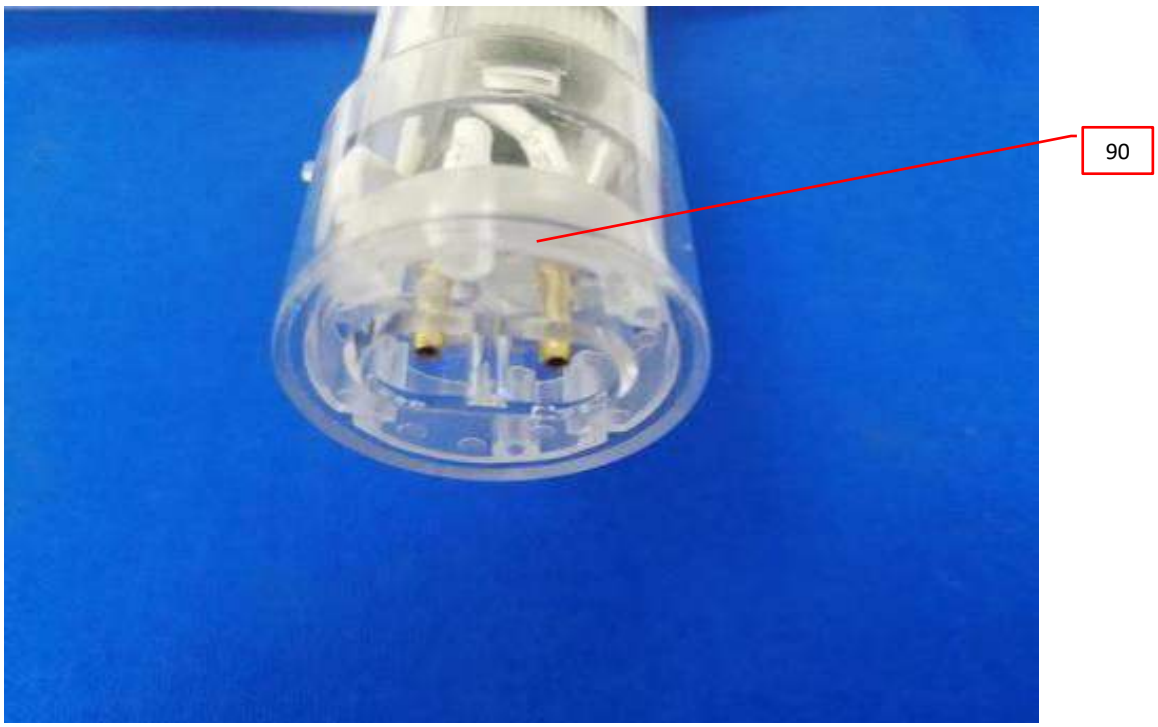

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Photo 39 - Output connector view for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

Photo 40 - External view of R17d End Cap3 for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

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Photo 41 - Internal view of R17d End Cap3 for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K s

Photo 42 - External view of R17d End Cap4 for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

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Photo 43 - Internal view of R17d End Cap4 for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

Photo 44 - External view for models PVT8-18IND21-7W-%%-360-**K

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Photo 45 - External view for models PVT8-18IND21-7W-%%-360-**K

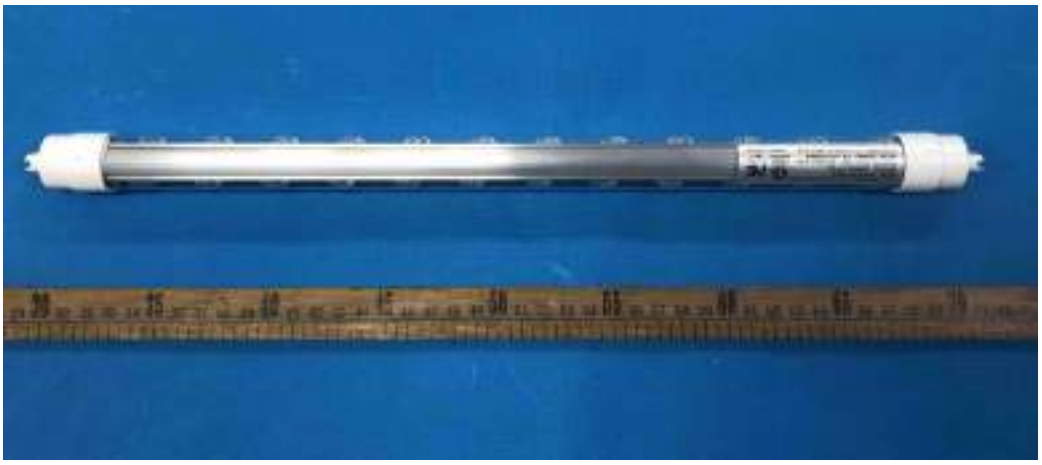

Photo 46 - External view for models PVT8-24ND21-10W-%%-360-**K

Photo 47 - External view for models PVT8-24ND21-10W-%%-360-**K

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Photo 48 - External view for models PVT8-30IND21-13W-%%-360-**K

Photo 49 - External view for models PVT8-30IND21-13W-%%-360-**K

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Photo 50 - External view for models PVT8-36ND21-16W-%%-360-**K

Photo 51 - External view for models PVT8-36ND21-16W-%%-360-**K

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Photo 52 - External view for models PVT8-42IND21-18W-%%-360-**K

Photo 53 - External view for models PVT8-42IND21-18W-%%-360-**K

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Photo 54 - External view for models PVT8-48IND21-21W-%%-360-**K

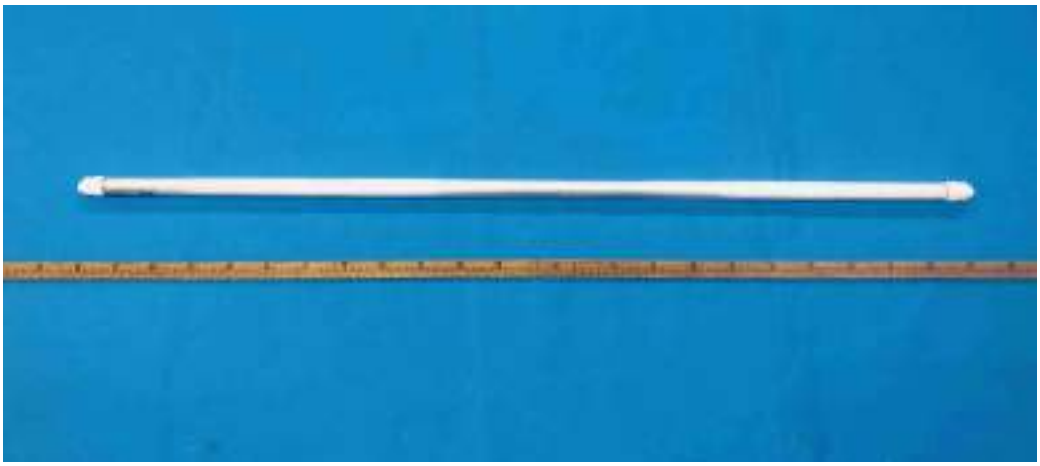

Photo 55 - External view for models PVT8-48IND21-21W-%%-360-**K

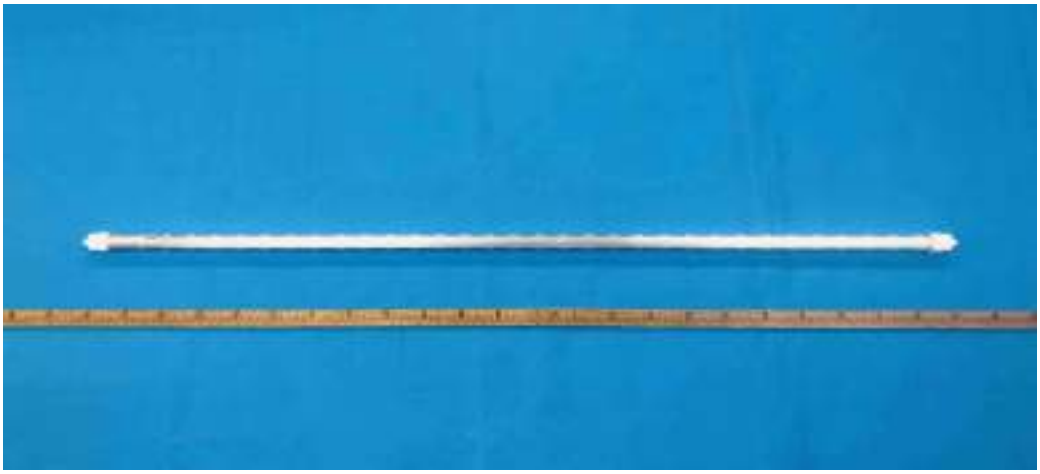

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Photo 56 - External view for modelsPVT8-60IND21-26W-%%-360-**K

Photo 57 - External view for models PVT8-60IND21-26W-%%-360-**K

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Photo 58 - External view for models PVT8-64IND21-28W-%%-360-**K

Photo 59 - External view for models PVT8-64IND21-28W-%%-360-**K

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Photo 60 - External view for models PVT8-72IND21-31W-%%-360-**K

Photo 61 - External view for models PVT8-72IND21-31W-%%-360-**K

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Photo 62 - External view for models PVT8-84IND21-37W-%%-360-**K

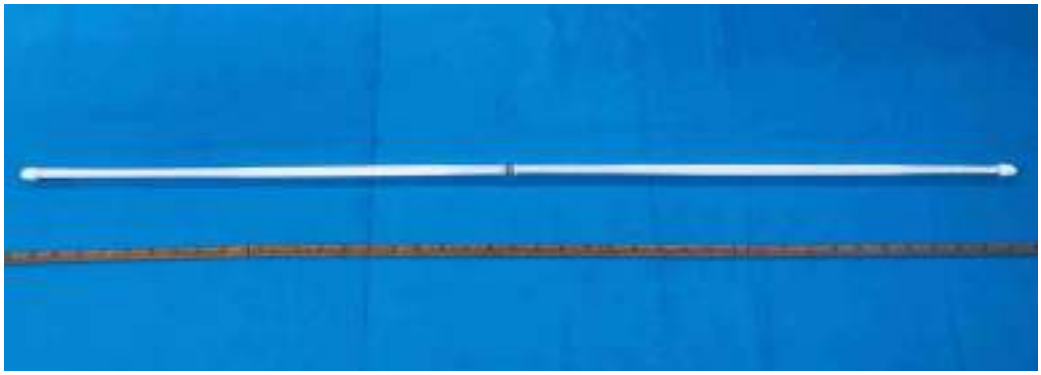

Photo 63 - External view for models PVT8-84IND21-37W-%%-360-**K

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Photo 64 - External view for models PVT8-96IND21-42W-%%-360-**K

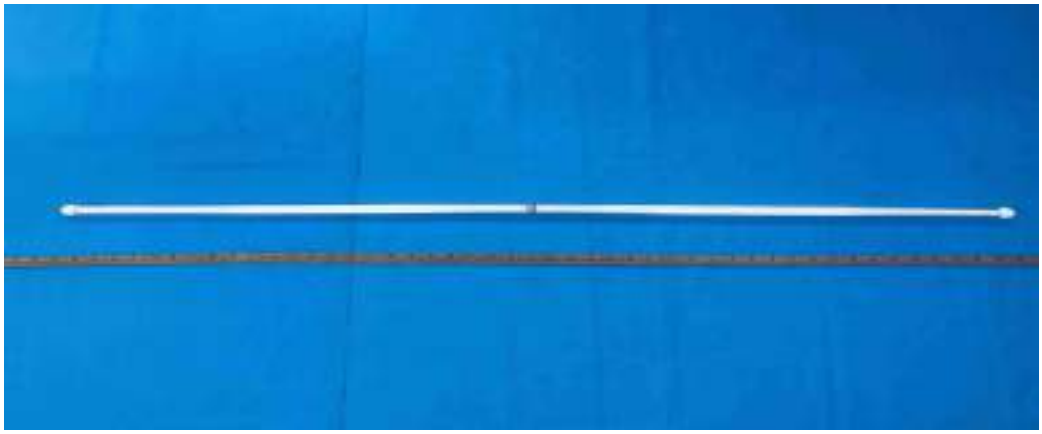

Photo 65 - External view for models PVT8-96IND21-42W-%%-360-**K

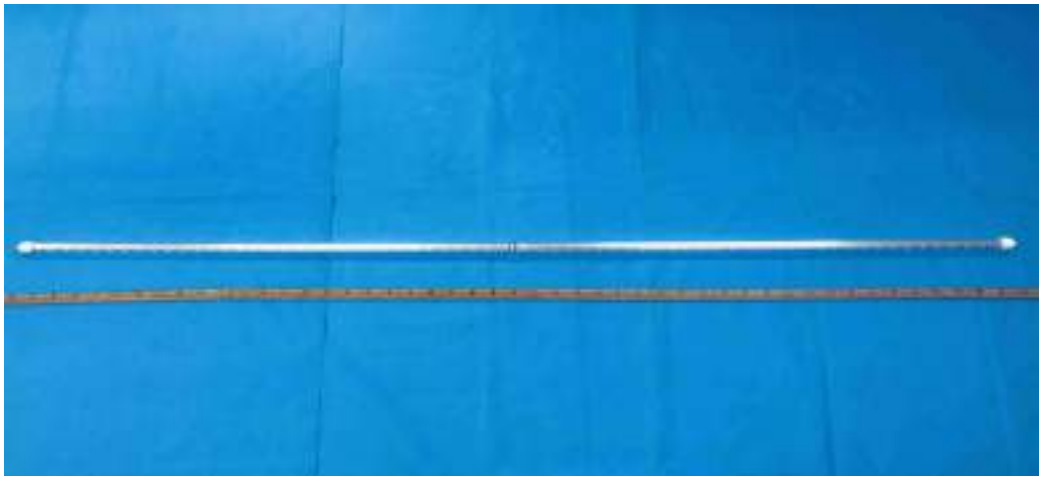

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Photo 66 - External view for models PVT8-108IND21-47W-%%-360-**K

Photo 67 - External view for models PVT8-108IND21-47W-%%-360-**K

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Photo 68 - External view for models PVT8-117IND21-50W-%%-360-**K

Photo 69 - External view for models PVT8-117IND21-50W-%%-360-**K

Photo 70 - External view for models PVT8-120IND21-52W-%%-360-**K

Photo 71 - External view for models PVT8-120IND21-52W-%%-360-**K

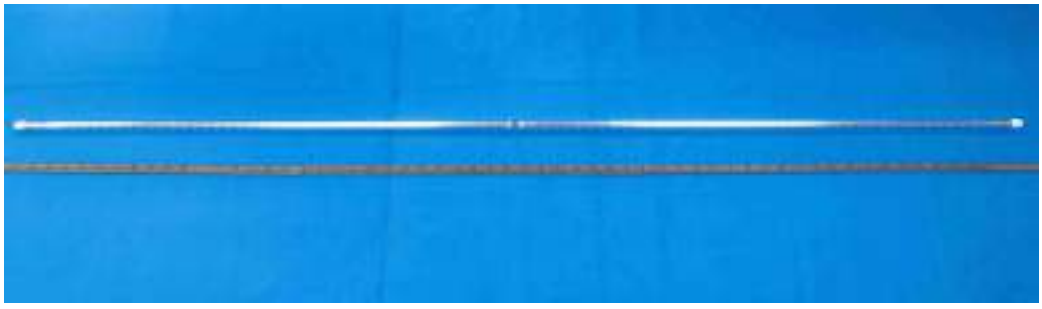

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Photo 72 - Both of the End Cap view for model PVT8-120IND21-52W-%%-360-**K, also representing model PVT8-64IND21-28W-%%-360-**K, PVT8-72IND21-31W-%%-360-**K , PVT8-84IND21-37W-%%-360-**K, PVT8-96IND21-42W-%%-360-**K, PVT8-108IND21-47W-%%-360-**K, PVT8-117IND21-50W-%%-360-**K

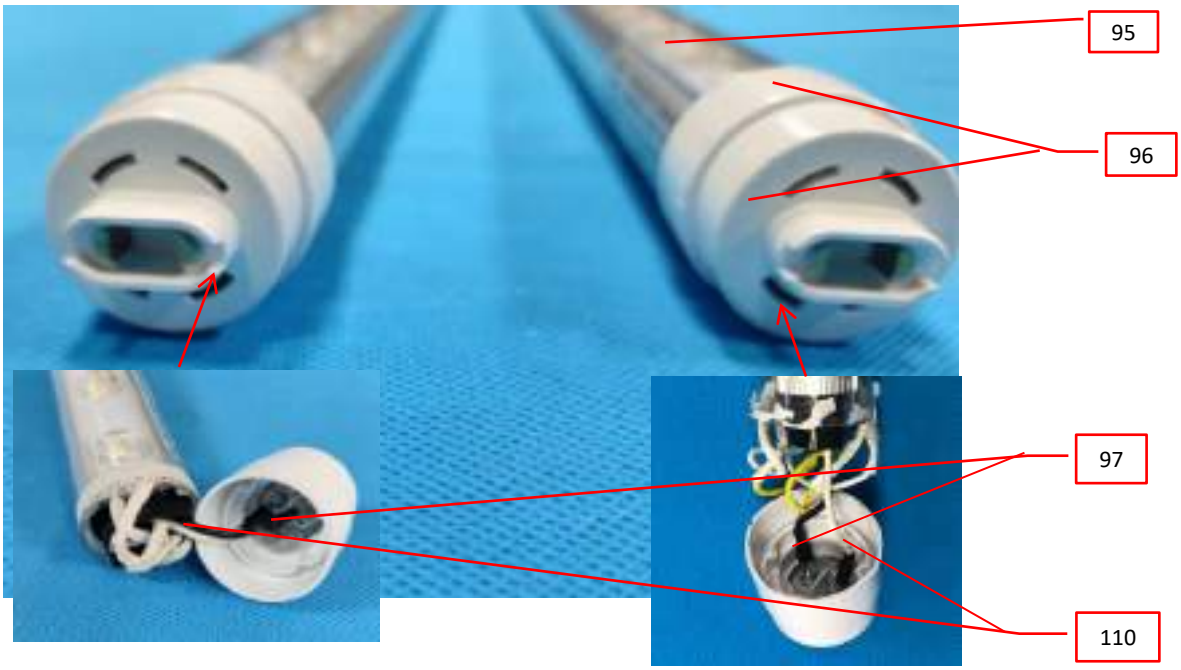

Photo 72a - Both of the End Cap view for model PVT8-60IND21-26W-%%-360-**K, also representing model PVT8-18IND21-7W-%%-360-**K, PVT8-24ND21-10W-%%-360-**K, PVT8-30IND21-13W-%%-360-**K, PVT8-36ND21-16W-%%-360-**K, PVT8-42IND21-18W-%%-360-**K, PVT8-48IND21-21W-%%-360-**K

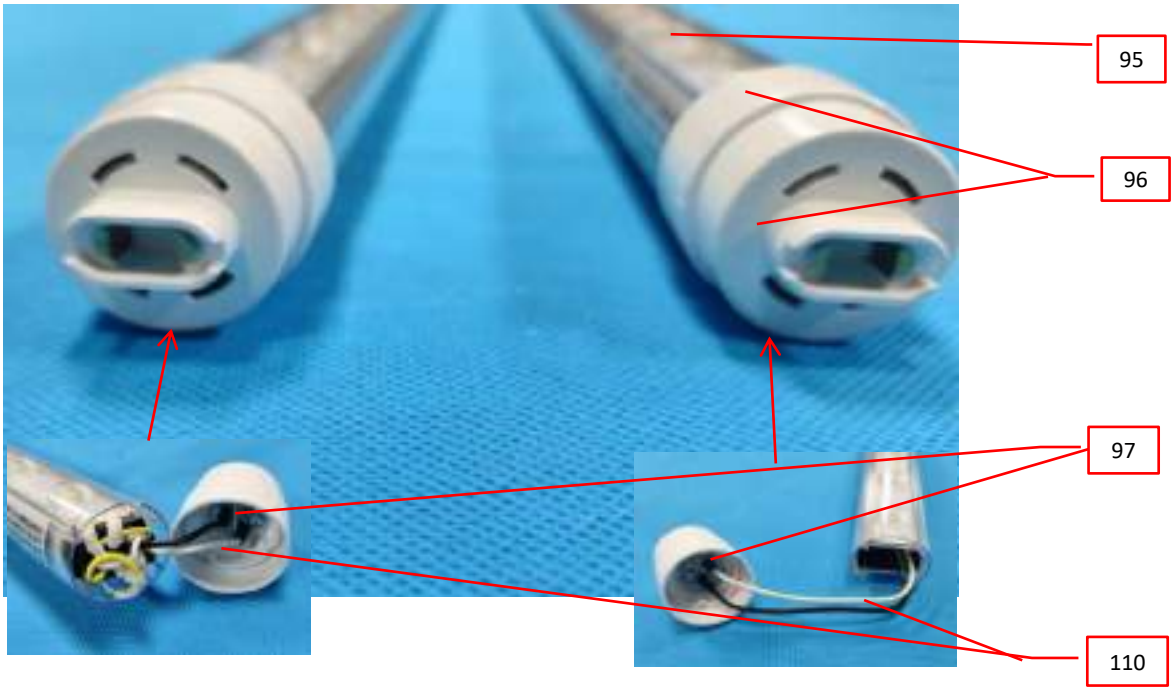

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Photo 73 - Internal view for model PVT8-120IND21-52W-%%-360-**K, also representing model PVT8-64IND21-28W-%%-360-**K, PVT8-72IND21-31W-%%-360-**K, PVT8-84IND21-37W-%%-360-**K, PVT8-96IND21-42W-%%-360-**K , PVT8-108IND21-47W-%%-360-**K, PVT8-117IND21-50W-%%-360-**K

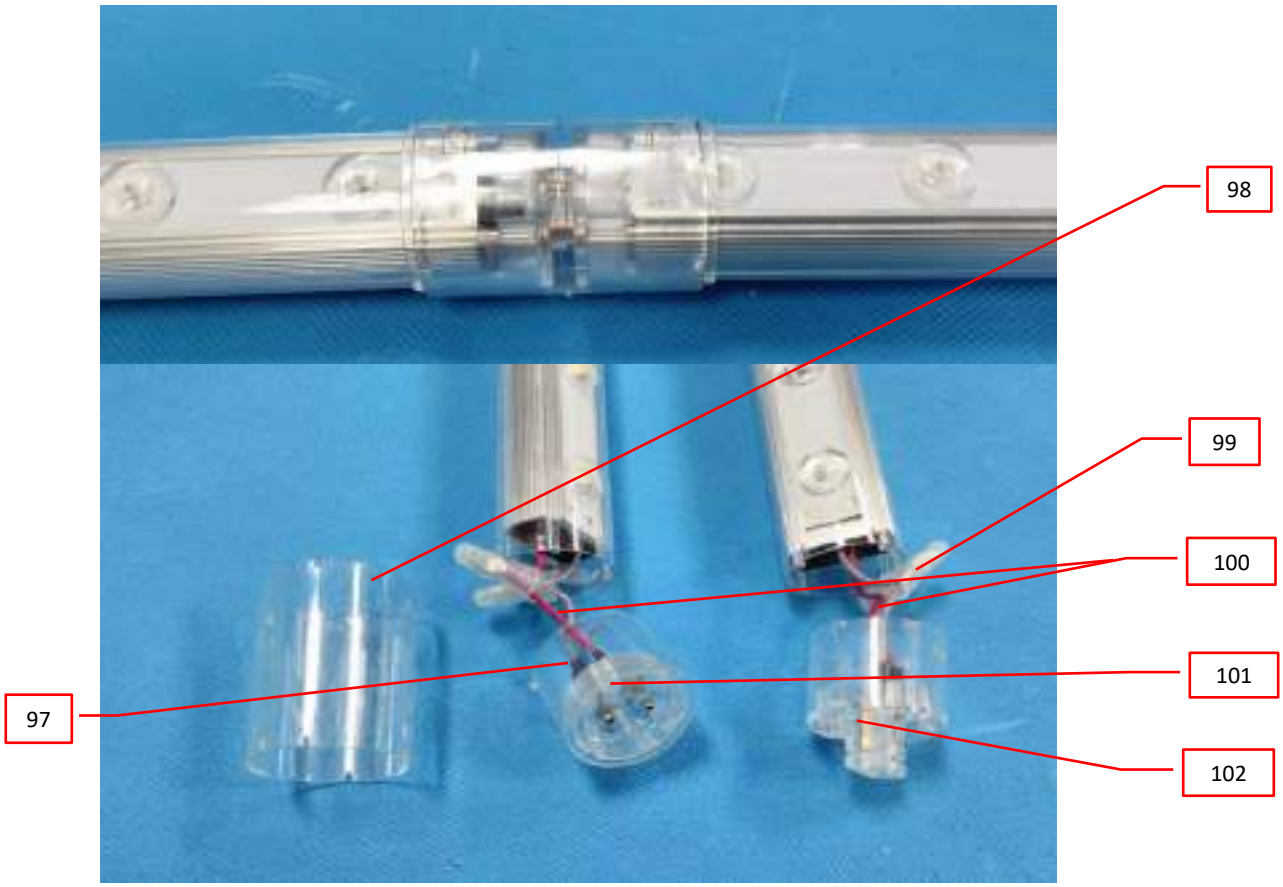

Photo 73a - Fixing ring view for model PVT8-120IND21-52W-%%-360-**K, also representing model PVT8-64IND21-28W-%%-360-**K, PVT8-72IND21-31W-%%-360-**K, PVT8-84IND21-37W-%%-360-**K, PVT8-96IND21-42W-%%-360-**K , PVT8-108IND21-47W-%%-360-**K, PVT8-117IND21-50W-%%-360-**K

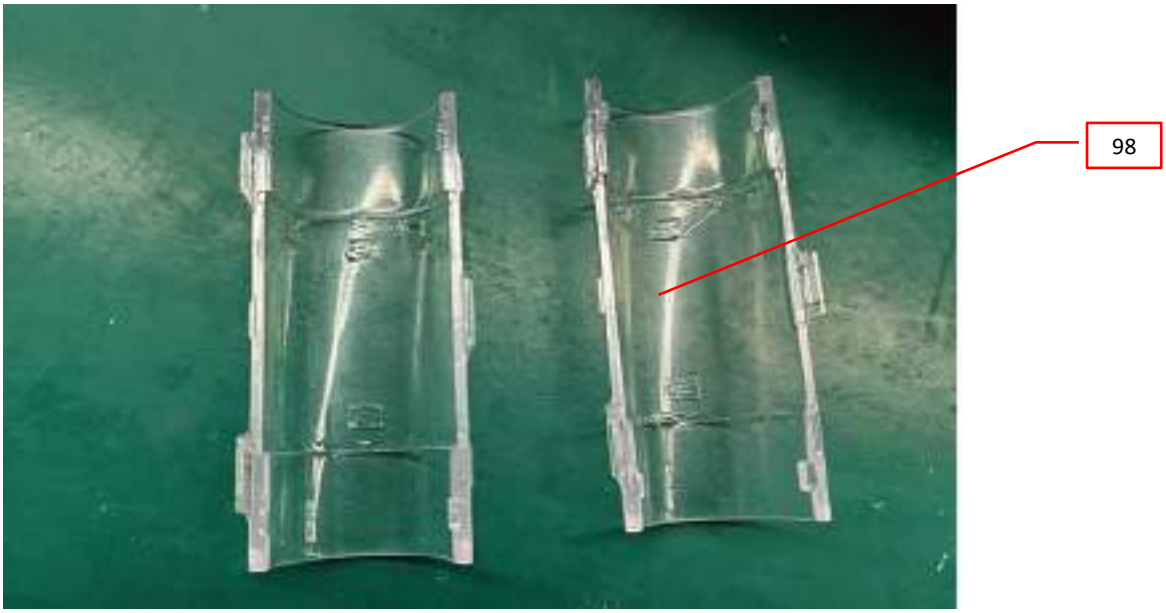

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Photo 74 - Internal view for model PVT8-60IND21-26W-%%-360-**K, also representing model PVT8-18IND21-7W-%%-360-**K , PVT8-24ND21-10W-%%-360-**K , PVT8-30IND21-13W-%% -360-**K, PVT8-36ND21-16W-%%-360-**K , PVT8-42IND21-18W-%%-360-**K, PVT8-48IND21-21W-%%-360-**K

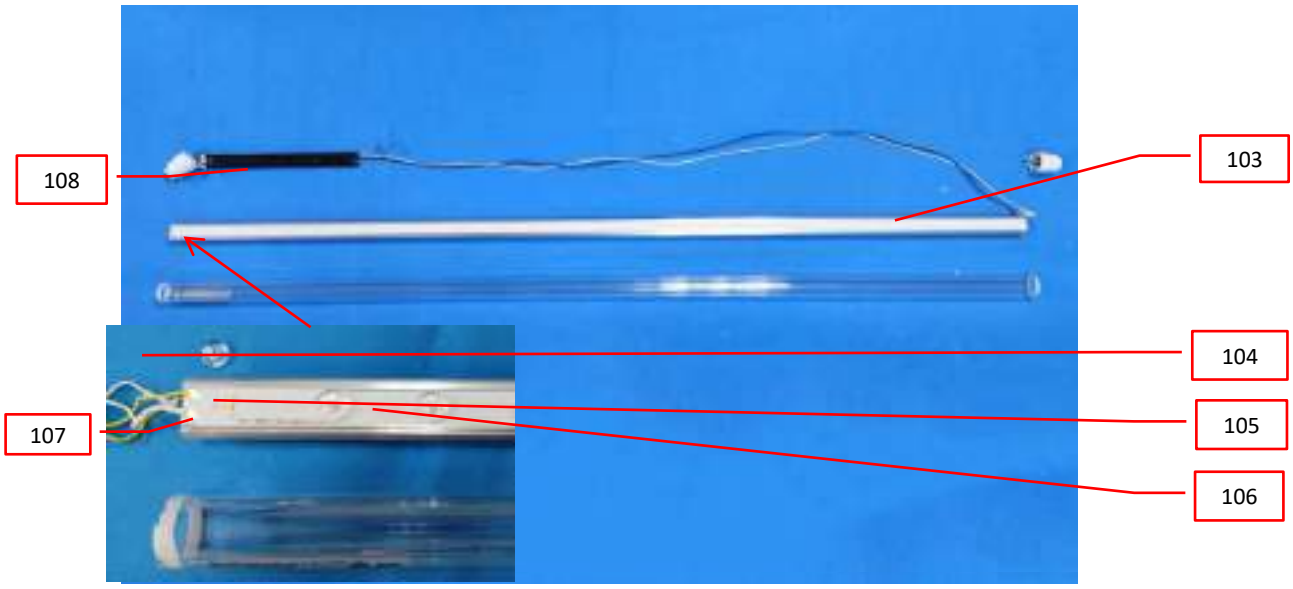

Photo 75 - Internal view for model PVT8-120IND21-52W-%%-360-**K, also representing model PVT8-64IND21-28W-%%-360-**K, PVT8-72IND21-31W-%%-360-**K, PVT8-84IND21-37W-%%-360-**K, PVT8-96IND21-42W-%%-360-**K , PVT8-108IND21-47W-%%-360-**K, PVT8-117IND21-50W-%%-360-**K

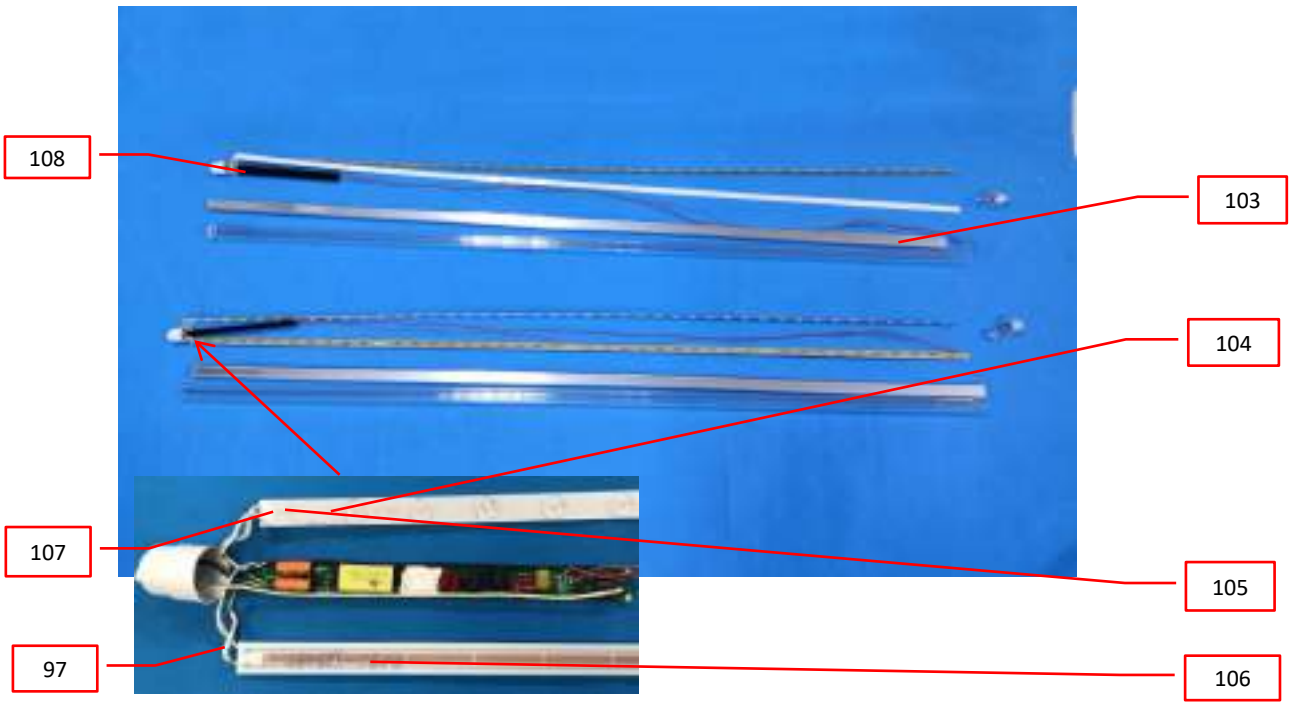

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Photo 76 - Top view of LED driver, models PVD-T8D21-26W-01

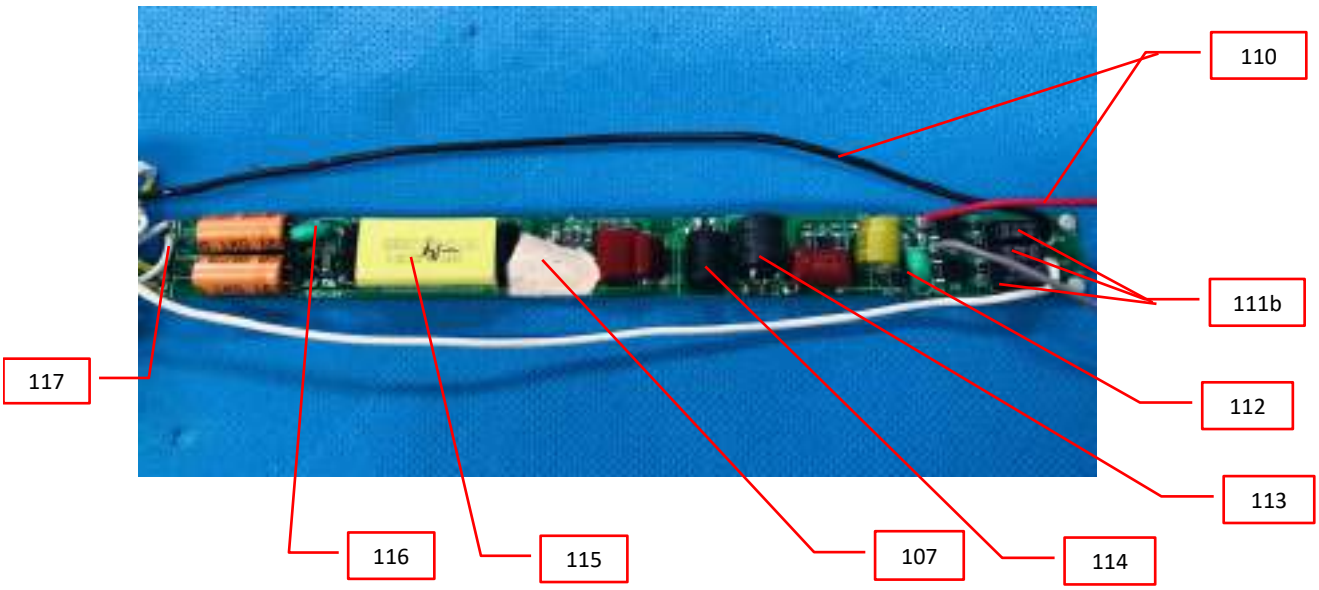

Photo 76a - Top view of LED driver, models PVD-T8D21-52W-01,also representing model PVD-T8D21-47W-01,PVD-T8D21-50W-01

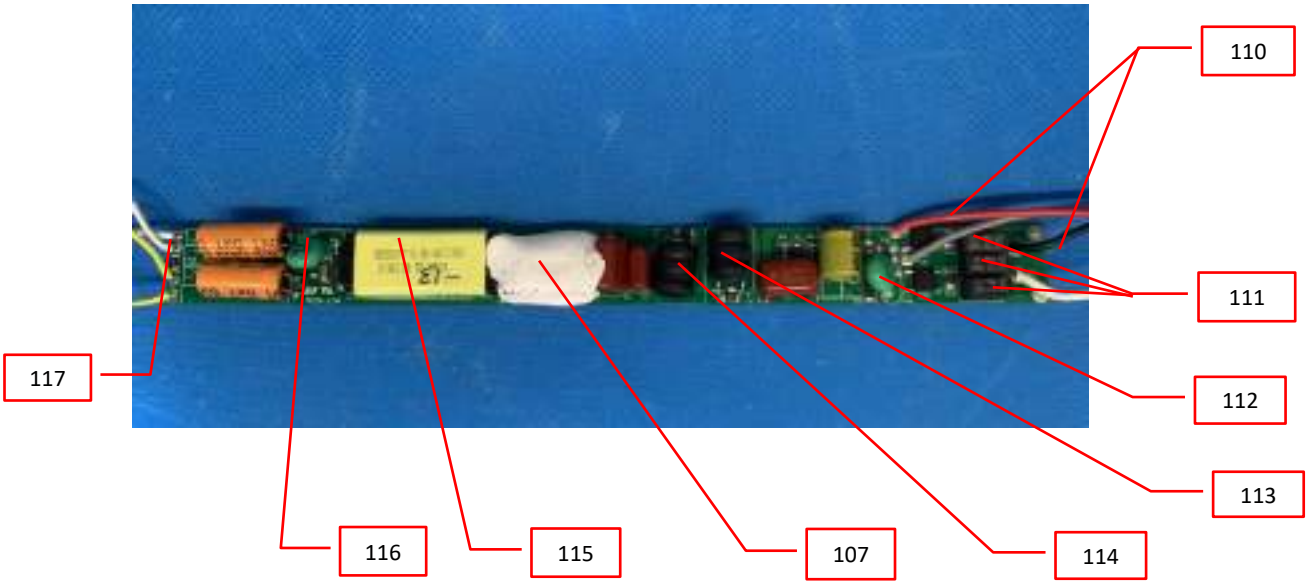

Photo 77 - Bottom view of LED driver, models PVD-T8D21-26W-01, also representing model PVD-T8D21-47W-01,PVD-T8D21-50W-01,PVD-T8D21-52W-01,

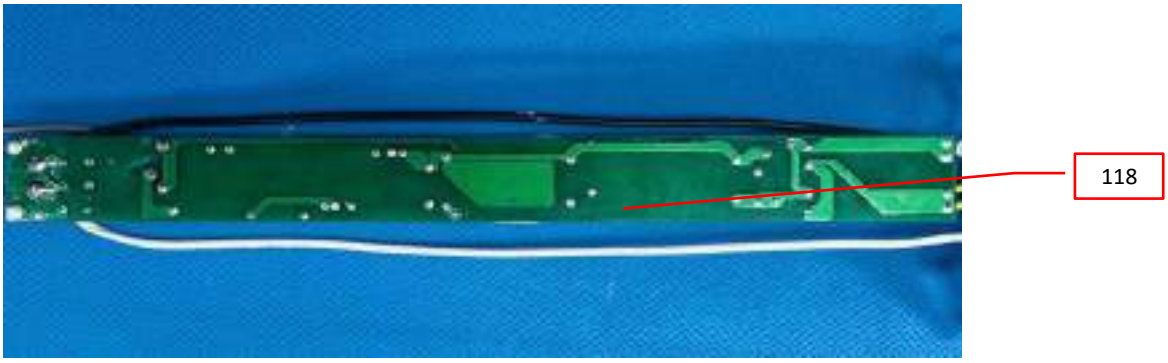

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Photo 78 - Top view of LED driver, models PVD-T8D21-13W-01

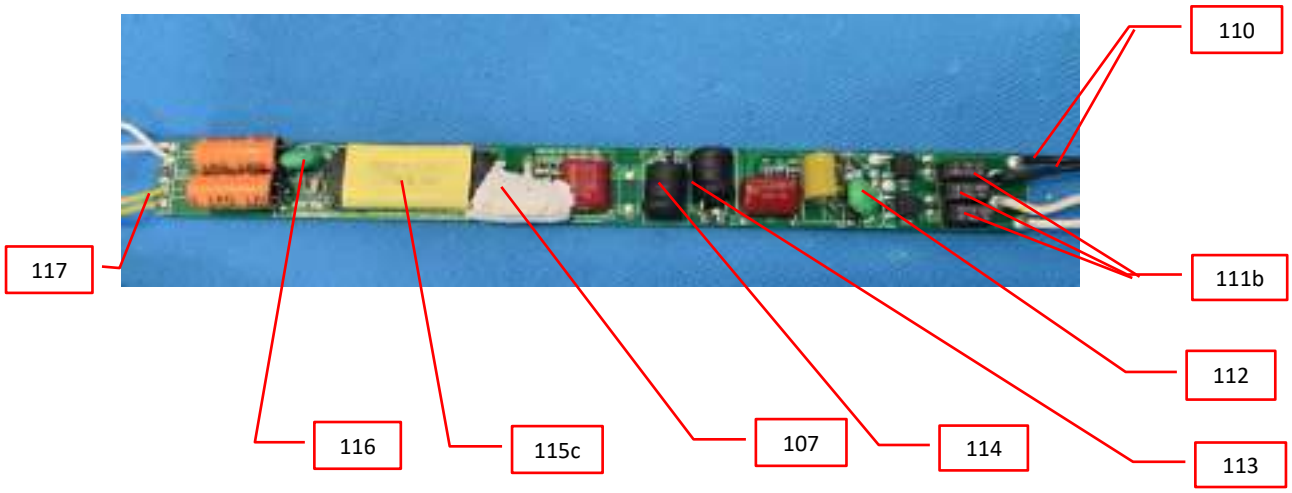


Photo 78a - Top view of LED driver, models PVD-T8D21-16W-01

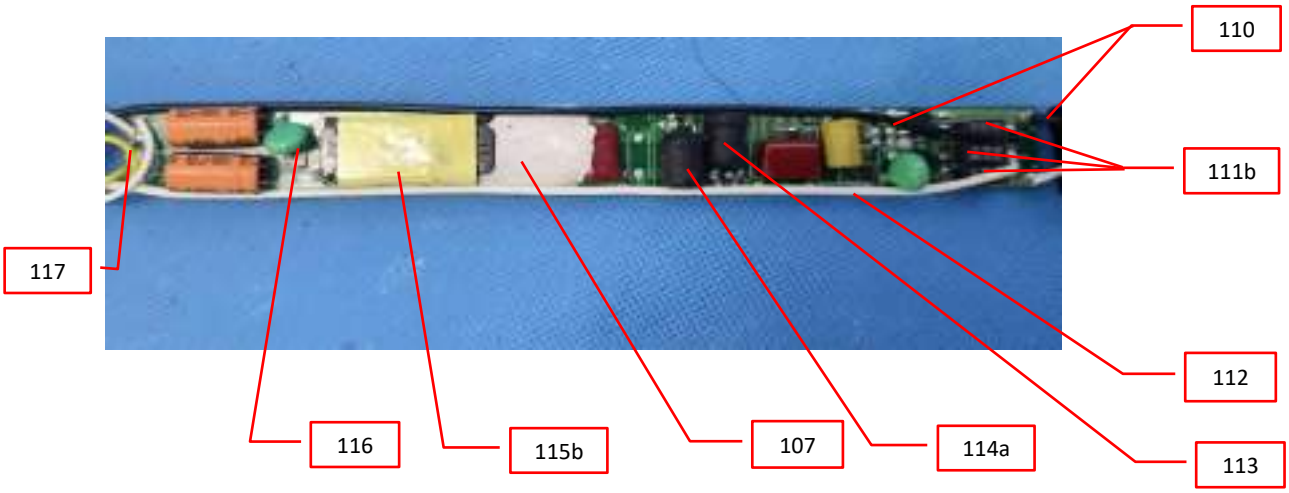
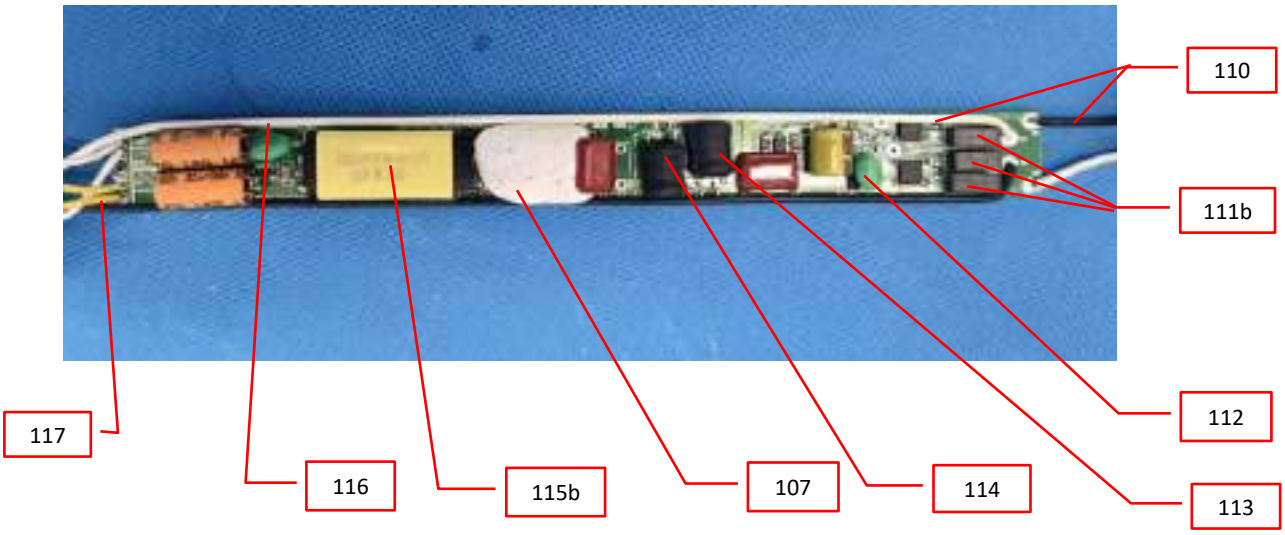


Photo 78b - Top view of LED driver, models PVD-T8D21-18W-01



3.0 Product Photographs

Photo 78c - Top view of LED driver, models PVD-T8D21-21W-01

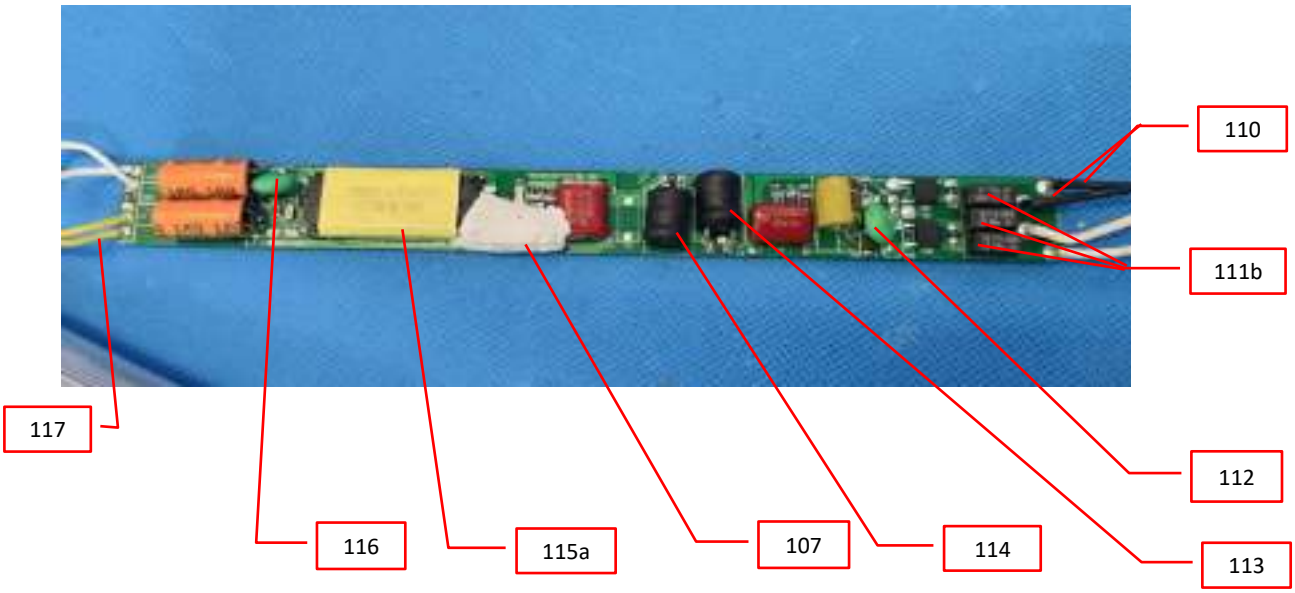
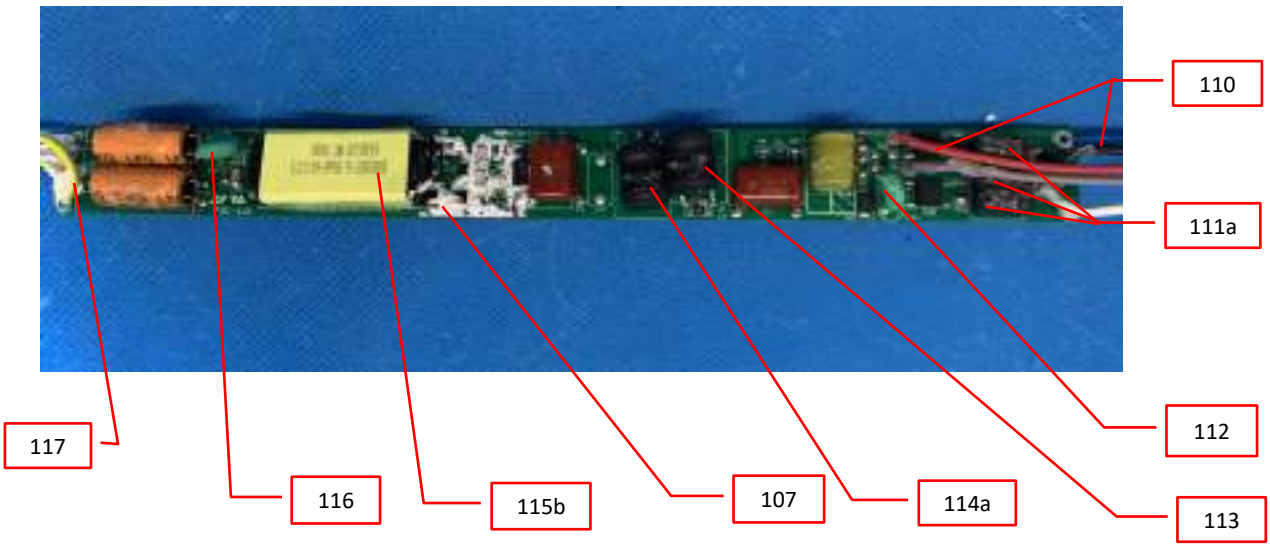


Photo 78d - Top view of LED driver, models PVD-T8D21-28W-01, also representing model PVD-T8D21-31W-01



3.0 Product Photographs

Photo 78e - Top view of LED driver, models,PVD-T8D21-37W-01

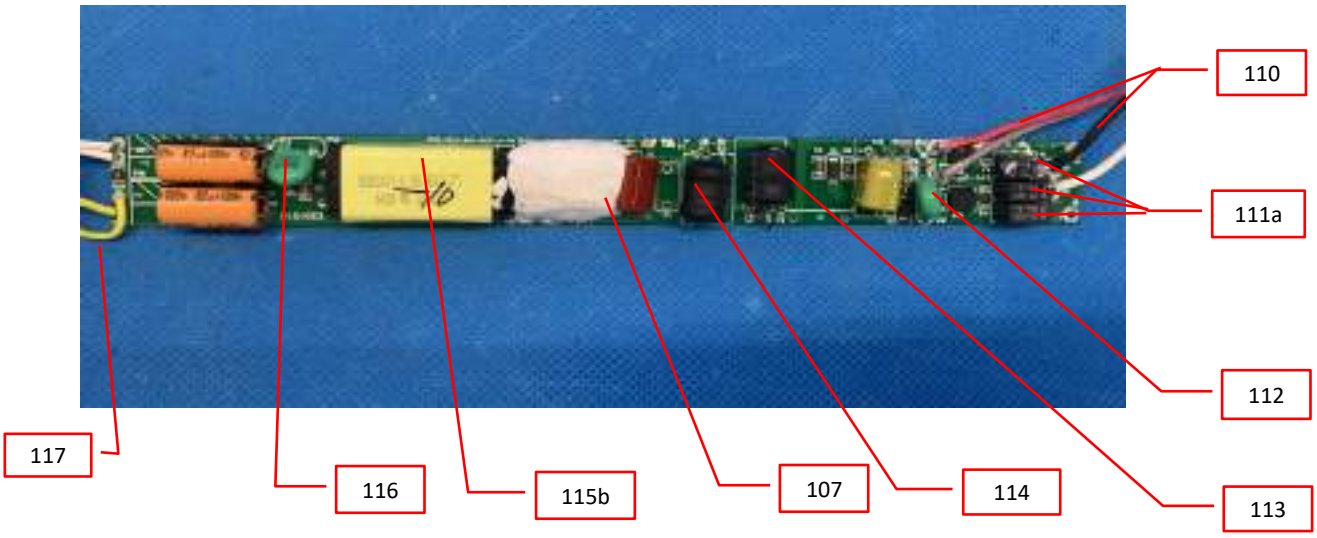


Photo 78f - Top view of LED driver, models,PVD-T8D21-42W-01.

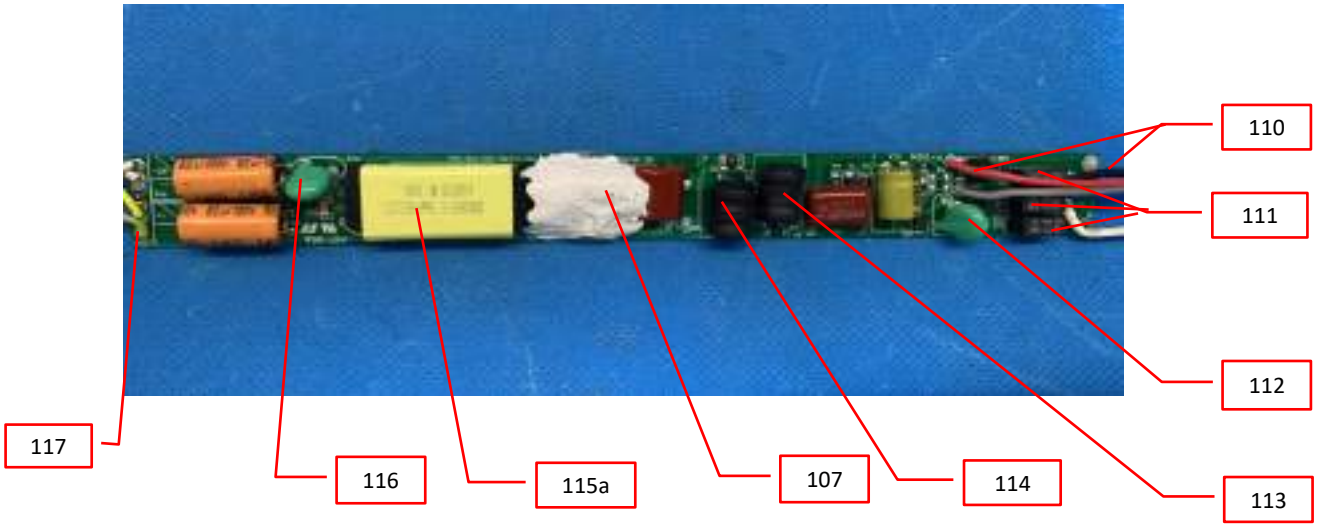
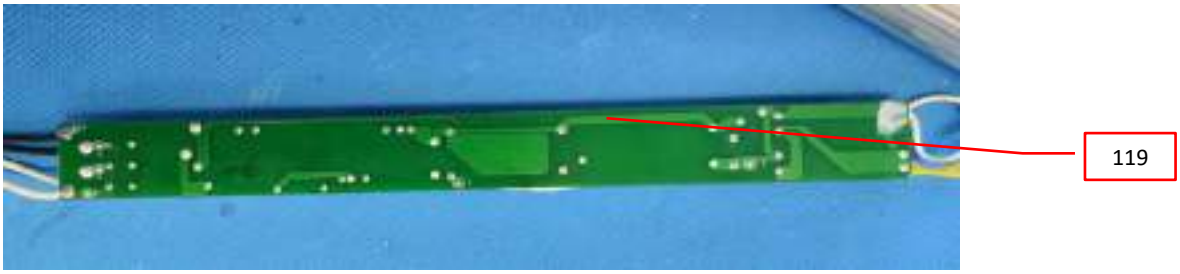


Photo 79 - Bottom view of LED driver, models PVD-T8D21-13W-01, aslo representsPVD-T8D21-16W-01, PVD-T8D21-18W-01, PVD-T8D21-21W-01, PVD-T8D21-28W-01, PVD-T8D21-31W-01, PVD-T8D21-37W-01, PVD-T8D21-42W-01



3.0 Product Photographs

Photo 80 - Top view of LED driver, models PVD-T8D21-10W-01

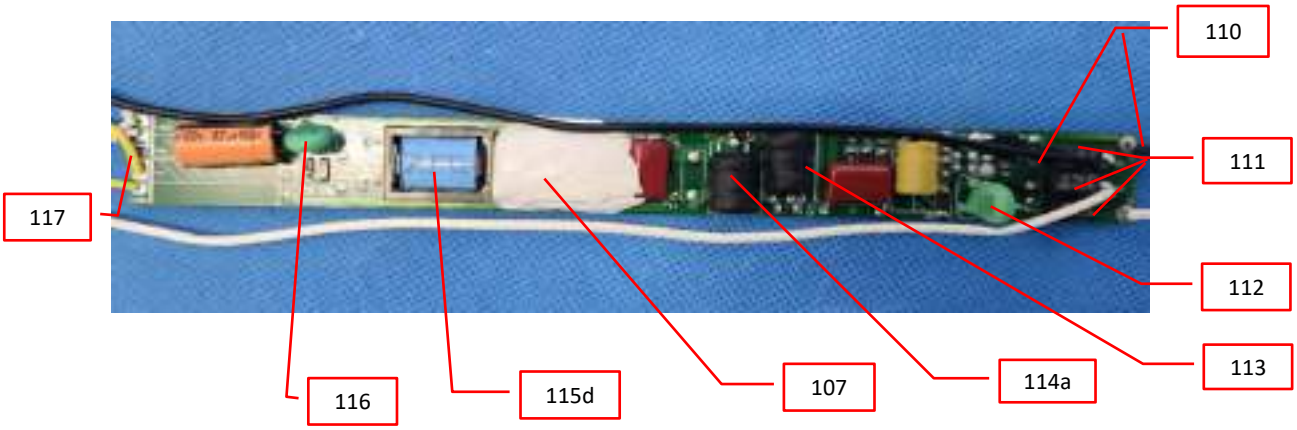


Photo 80a- Top view of LED driver, models PVD-T8D21-7W-01

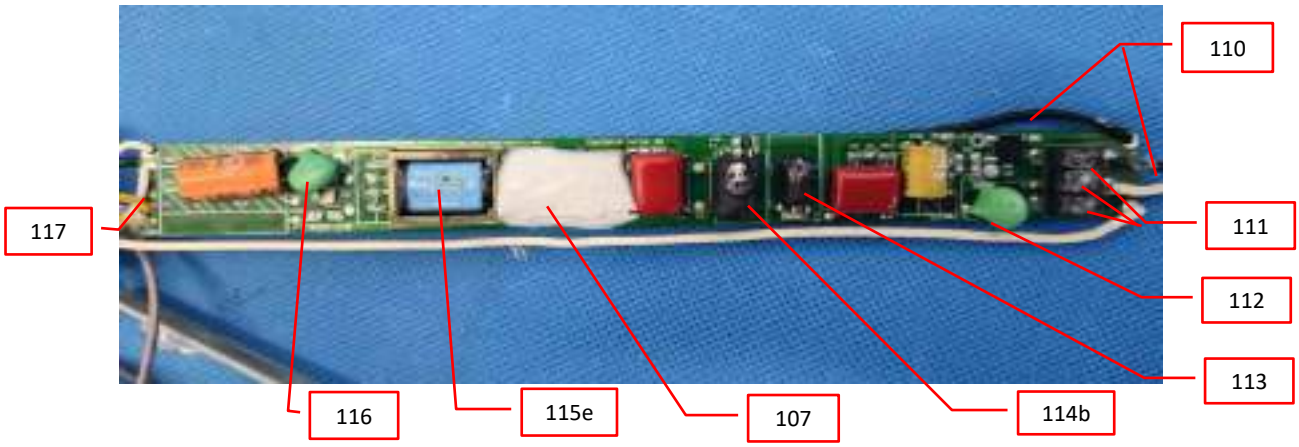
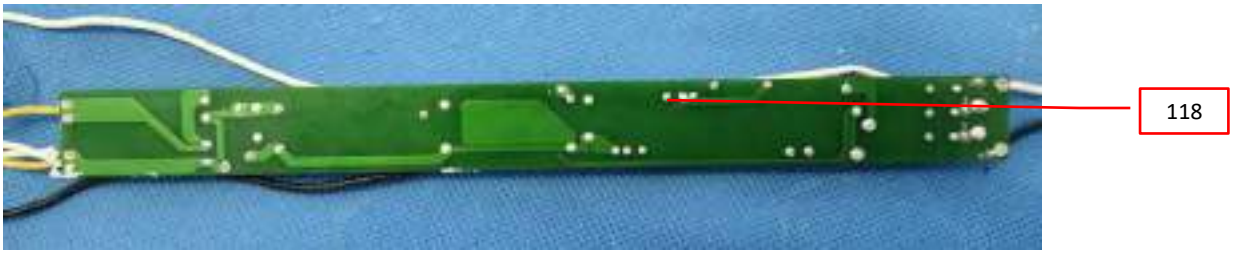


Photo 81- Bottom view of LED driver, models PVD-T8D21-10W-01, also represents PVD-T8D21-7W-01



4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
3	1	Plastic enclosure	SABIC INNOVATIVE PLASTICS B V	771	PBT material, V-0, 120°C, HWI=3, HAI=0, CTI=0, Min. thickness: 1.0mm. Secured to input and output connector by fixed glue. For all models.	cURus
4	2	LED PCB	Various	Various	Metal base, V-0, Min. 105°C, CTI=4 or better, Min.thickness: 1.0mm. Complied UL 796. For all models.	cURus
4	3	Heat sink	Various	Various	Extruded aluminum, Min. thickness: 1.0mm. For all models.	NR
4	4	LED	Various	Various	Vf: 5.4-6.8V, If: Max.185mA. For all models.	NR
4	5	LED lens	TEIJIN LIMITED RESIN AND PLASTIC	LN-1250G(#)(*)	PC material, V-2, 115°C, Min. thickness: 1.0mm. Secured to LED PCB by snap-in. For all models.	cURus
4, 11	6	Fixed glue(I)	Various	Various	Silicone "Room Temperature Vulcanizing" (RTV), Min. 2.0mm thickness, RTI: 105°C. Used for secured soldered connection of LED lead wire to LED PCB and used to fixed the driver PCB inside driver housing. For all models.	cURus
2	6a	Fixed glue(II)	GUANGZHOU BAIYUN CHEMICAL INDUSTRY CO LTD	SMG261 ($)	Silicone "Room Temperature Vulcanizing" (RTV), Min. 0.05mm thickness, RTI: 105°C. Used for fixed the end caps to the plastic enclosure.. For all models.	cURus
5	7	Connector	Various	Various	300V, 3A, 105°C, suitable for 26-16AWG wire connection. For all models.	cURus
5	8	Input connector	XIAMEN PVTECH CORPORATION LTD.	IC-1	120-277Vac, 1.5A.	See 5.0
6, 8, 9	9	Heat-shrinkable tubing	Various	Various	600V, 125°C, VW-1	cURus
7	10	Output connector	XIAMEN PVTECH CORPORATION LTD.	OC-1	120-277Vac, 1.5A.	See 5.0
10	11	Driver housing	E I DUPONT DE NEMOURS & CO INC	FR945	PET material, V-0, CTI 2, HAI 2, HWI 2, 150°C, Min. thickness: 0.81mm. It is long enough to ensure the live parts of the drive to the heat sink which is greater than 10 mm. For all models.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
10	12	Driver (I)	XIAMEN PVTECH CORPORATION LTD.	XPC-21W	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.17A, 21W. Output: 57.5Vdc, 0.31A. Suitable for dry and damp locations. For model PVST842-21W-360-**K. Consisted of item 13-21.	NR
11	13	Input wire of driver	Various	Various	AWM, Min. 300V, Min. 105°C, VW-1, Min. 18AWG.	cURus
12	14	Inductor (L1)	Various	Various	5000uH. Consisted of Item 14a-14b.	NR
12	14a	Magnet wire (L1)	Various	Various	Polyurethane, 130°C. Ø0.15mm, 384.5turns;	UR
12	14b	Heat-shrinkable tubing (L1)	Various	Various	600V, 125°C, VW-1	cURus
12	15	Varistor (RV1)	Various	Various	SPD type 5, 510Vdc, Min. 105°C.	cURus
12	16	Fuse (F1)	HOLLYLAND CO LTD	5ET	300Vac, 1A.	cURus
12	17	Inductor (LF1)	Various	Various	150uH. Consisted of Item17a-17b.	NR
12	17a	Magnet wire (LF1)	Various	Various	Polyurethane, 130°C. Ø0.3mm, 10.5turns;	UR
12	17b	Triple Insulated Wire (LF1)	TA YA ELECTRIC WIRE & CABLE CO LTD	TLWD-F	Reinforced; Ø0.3mm, 10.5turns; 130°C.	UR
12	18	Inductor (T1)	Various	Various	0.65mH. Consisted of Item 18a-18d. Refer to illustration 33 for details.	NR
12	18a	Bobbin (T1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
12	18b	Magnet wire (T1)	Various	Various	Polyurethane, N1: Ø0.35mm, 55.5turns, 130°C.	UR
12	18c	Insulation tape (T1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
12	18d	Varnish (T1)	Various	Various	Min. 130°C.	UR
12	19	output wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VW-1, 24AWG.	cURus
12	20	Varistor (RV2)	Various	Various	SPD type 5, 560Vdc, Min. 105°C.	cURus
13	21	Driver PCB	Various	Various	Single layer PWB, V-0, 130°C, CTI=3 or better, Min.thickness:1.0mm. Complied UL 796.	cURus
14	22	Driver (II)	XIAMEN PVTECH CORPORATION LTD.	XPC-15W	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.13A, 15W. Output: 57.3Vdc, 0.22A. Suitable for dry and damp locations. For model PVST830-15W-360-**K. Consisted of item 23, 25-28, 30-31.	NR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
14	22a	Driver (III)	XIAMEN PVTECH CORPORATION LTD.	XPC-10.5W	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.09A, 10.5W.Output: 57.4Vdc, 0.16A. Suitable for dry and damp locations. For model PVST842-10.5W-180-**K. Consisted of item 24-27, 29-31.	NR
14	23	Inductor (L1)	Various	Various	5000uH. Consisted of Item 23a-23b. For model PVST830-15WD-360-**K.	NR
14	23a	Magnet wire (L1)	Various	Various	Polyurethane, 130°C. Ø0.15mm, 384.5turns;	UR
14	23b	Heat-shrinkable tubing (L1)	Various	Various	600V, 125°C, VWD-1	cURus
14	24	Inductor (L1)	Various	Various	5000uH. Consisted of Item 23Ia-23Ib. For model PVST842-10.5WD-180-**K.	NR
14	24a	Magnet wire (L1)	Various	Various	Polyurethane, 130°C. Ø0.10mm, 429.5turns;	UR
14	24b	Heat-shrinkable tubing (L1)	Various	Various	600V, 125°C, VW-1	cURus
14	25	Varistor (RV1)	Various	Various	SPD type 5, 510Vdc, Min. 105°C.	cURus
14	25a	Fuse (F1)	HOLLYLAND CO LTD	5ET	300Vac, 1A.	cURus
14	26	Input wire of driver	Various	Various	AWM, Min. 300V, Min. 105°C, VW-1, Min. 18AWG.	cURus
14	27	Inductor (LF1)	Various	Various	50uH. Consisted of Item 27a-27b. For model PVST830-15WD-360-**.	NR
14	27a	Magnet wire (LF1)	Various	Various	Polyurethane, 130°C. Ø0.3mm, 6turns;	UR
14	27b	Triple Insulated Wire (LF1)	Various	Various	Reinforced; N1: Ø0.3mm, 6turns; 130°C.	UR
14	28	Inductor (T1)	Various	Various	1.0mH. Consisted of Item 28a-28d. For model PVST830-15WD-360-**K. Refer to illustration 34 for details.	NR
14	28a	Bobbin (T1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
14	28b	Magnet wire (T1)	Various	Various	Polyurethane, N1: Ø0.21mm, 150.5turns, 130°C.	UR
14	28c	Insulation tape (T1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
14	28d	Varnish (T1)	Various	Various	Min. 130°C.	UR
14	29	Inductor (T1)	Various	Various	1.4mH. Consisted of Item 28Ia-28Id. For model PVST842-10.5WD-180-**K. Refer to illustration 35 for details.	NR
14	29a	Bobbin (T1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
14	29b	Magnet wire (T1)	Various	Various	Polyurethane, N1: Ø0.21mm, 150.5turns, 130°C.	UR
14	29c	Insulation tape (T1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
14	29d	Varnish (T1)	Various	Various	Min. 130°C.	UR
14	30	output wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VW-1, 24AWG.	cURus
14	30a	Varistor (RV2)	Various	Various	SPD type 5, 560Vdc, Min. 105°C.	cURus
15	31	Driver PCB	Various	Various	Single layer PWB, V-0, 130°C, CTI=3 or better, Min.thickness:1.0mm. Complied UL 796.	cURus
16	32	Driver (IV)	XIAMEN PVTECH CORPORATION LTD.	XPC-9W	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.08A, 9W. Output: 57.3Vdc, 0.12A.Suitable for dry and damp locations. For model PVST818-9W-360-**K. Consisted of item 33-36, 39, 39a, 39b.	NR
16	32a	Driver (V)	XIAMEN PVTECH CORPORATION LTD.	XPC-7.5W	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.06A, 7.5W. Output: 57.4Vdc, 0.10A.Suitable for dry and damp locations. For model PVST830-7.5WD-180-**K. Consisted of item 33-35, 37, 39, 39a, 39b.	NR
16	32b	Driver (VI)	XIAMEN PVTECH CORPORATION LTD.	XPC-6W	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.05A, 6W.Output: 57.2Vdc, 0.08A. Suitable for dry and damp locations. For model PVST812-6W-360-**K. Consisted of item 33-35, 37, 39, 39a, 39b.	NR
16	32c	Driver (VII)	XIAMEN PVTECH CORPORATION LTD.	XPC-4.5W	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.04A, 4.5W. Output: 57.3Vdc, 0.06A. Suitable for dry and damp locations. For model PVST818-4.5W-180-**K. Consisted of item 33-35, 38, 39, 39a, 39b.	NR
16	32d	Driver (VIII)	XIAMEN PVTECH CORPORATION LTD.	XPC-3W	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.03A, 3W.Output: 57.4Vdc, 0.04A. Suitable for dry and damp locations. For model PVST812-3WD-180-**K. Consisted of item 33-35, 38, 39, 39a, 39b.	NR
16	33	Inductor (L1)	Various	Various	5.0mH. Consisted of Item 33a-33b.	NR
16	33a	Magnet wire (L1)	Various	Various	Polyurethane, 130°C. Ø0.10mm, 429.5turns;	UR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
16	33b	Heat-shrinkable tubing (L1)	Various	Various	600V, 125°C, VW-1	cURus
16	34	Varistor (RV1)	Various	Various	SPD type 5, 510Vdc, Min. 105°C.	cURus
16	35	Fuse (F1)	HOLLYLAND CO LTD	5ET	300Vac, 1A.	cURus
16	36	Inductor (T1)	Various	Various	1.4mH. Consisted of Item 36a-36d. For model PVST818-9WD-360-**K. Refer to illustration 35 for details.	NR
16	36a	Bobbin (T1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
16	36b	Magnet wire (T1)	Various	Various	Polyurethane, N1: Ø0.21mm, 150.5turns, 130°C.	UR
16	36c	Insulation tape (T1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
16	36d	Varnish (T1)	Various	Various	Min. 130°C.	UR
16	37	Inductor (T1)	Various	Various	2.2mH. Consisted of Item 36Ia-36Id. For model PVST830-7.5W-180-**K, PVST812-6W-360-**K. Refer to illustration 36 for details.	NR
16	37a	Bobbin (T1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
16	37b	Magnet wire (T1)	Various	Various	Polyurethane, N1: Ø0.18mm, 150.5turns, 130°C.	UR
16	37c	Insulation tape (T1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
16	37d	Varnish (T1)	Various	Various	Min. 130°C.	UR
16	38	Inductor (T1)	Various	Various	4.5mH. Consisted of Item 36IIa-36IId. For model PVST818-4.5W-180-**K, PVST812-3W-180-**K. Refer to illustration 37 for details.	NR
16	38a	Bobbin (T1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
16	38b	Magnet wire (T1)	Various	Various	Polyurethane, N1: Ø0.15mm, 192.5turns, 130°C.	UR
16	38c	Insulation tape (T1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
16	38d	Varnish (T1)	Various	Various	Min. 130°C.	UR
16	39	Output wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VW-1, 24AWG.	cURus
16	39a	Varistor (RV2)	Various	Various	SPD type 5, 560Vdc, Min. 105°C.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
17	39b	Driver PCB	Various	Various	Single layer PWB, V-0, 130°C, CTI=3 or better, Min.thickness:1.0mm. Complied UL 796.	cURus
19	40	Power cord set(I)	XIAMEN PVTECH CORPORATION LTD.	PCS-1	120-277Vac, 1.5A. Flexible cord molded with one female connector. Min. 1.5m long.	See 5.0
19	41	Power supply cord	Various	SPT-2	300V, 105°C, VW-1,18AWG.	cURus
				NISPT-2	300V, 105°C, VW-1,18AWG.	cURus
19	42	Input cord connector(I)	XIAMEN PVTECH CORPORATION LTD.	ICC-1	120-277Vac, 1.0A.	See 5.0
22	43	R17d End Cap1	XIAMEN PVTECH CORPORATION LTD.	ECR17d1	120-277Vac, 1.5A.	See 5.0
24	44	R17d End Cap2	XIAMEN PVTECH CORPORATION LTD.	ECR17d2	120-277Vac, 1.5A.	See 5.0
26	45	Accessories	SABIC INNOVATIVE PLASTICS B V	PC1003R	PC material, V-2, 80°C, Min. thickness: 1.5mm.	cURus
27	46	Pendant chain	Various	Various	Stainless steel, Min. thickness: 1.5mm.	NR
28	47	Double ended driver (I)	XIAMEN PVTECH CORPORATION LTD.	XPC-21W-1	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.17A, 21W. Output: 57.1Vdc, 0.30A. Suitable for dry and damp locations. For model PVST842-21WD-360-**K. Consisted of item 48-56.	NR
28	48	Varistor (RV1)	Various	Various	SPD type 5, 510Vdc, Min. 105°C.	cURus
28	49	Fuse (F1)	HOLLYLAND CO LTD	5ET	300Vac, 1A.	cURus
28	50	Varistor (RV2)	Various	Various	SPD type 5, 560Vdc, Min. 105°C.	cURus
28	51	Inductor (L2)	Various	Various	5.0mH. Consisted of Item 51a-51b.	NR
28	51a	Magnet wire (L2)	Various	Various	Polyurethane, 130°C. Ø0.15mm, 384.5turns;	UR
28	51b	Heat-shrinkable tubing (L2)	Various	Various	600V, 125°C, VW-1	cURus
28	52	Inductor (L1)	Various	Various	0.55mH. Consisted of Item 52a-52d.	NR
28	52a	Bobbin (L1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
28	52b	Magnet wire (L1)	Various	Various	Polyurethane, N1: Ø0.23mm, 110.5turns, 130°C.	UR
28	52c	Insulation tape (L1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
28	52d	Varnish (L1)	Various	Various	Min. 130°C.	UR
28	53	Inductor (T4)	Various	Various	50uH. Consisted of Item 53a-53b.	NR
28	53a	Magnet wire (T4)	Various	Various	Polyurethane, 130°C. Ø0.3mm, 3turns.	UR
28	53b	Triple Insulated Wire (T4)	Various	Various	Reinforced; N1: Ø0.3mm, 3turns; 130°C.	UR
29	54	Input wire of driver	Various	Various	AWM, Min. 300V, Min. 105°C, VW-1, Min. 18AWG.	cURus
29	55	Driver PCB	Various	Various	Single layer PWB, V-0, 130°C, CTI=3 or better, Min.thickness:1.0mm. Complied UL 796.	cURus
29	56	Output wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VW-1, 24AWG.	cURus
30	57	Double ended driver (II)	XIAMEN PVTECH CORPORATION LTD.	XPC-15W-1	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.13A, 15W. Output: 57.2Vdc, 0.22A. Suitable for dry and damp locations. For model PVST830-15WD-360-**K. Consisted of item 58-66.	NR
30	58	Varistor (RV1)	Various	Various	SPD type 5, 510Vdc, Min. 105°C.	cURus
30	59	Fuse (F1)	HOLLYLAND CO LTD	5ET	300Vac, 1A.	cURus
30	60	Varistor (RV2)	Various	Various	SPD type 5, 560Vdc, Min. 105°C.	cURus
30	61	Inductor (L2)	Various	Various	5.0mH. Consisted of Item 61a-61b.	NR
30	61a	Magnet wire (L2)	Various	Various	Polyurethane, 130°C. Ø0.15mm, 384.5turns;	UR
30	61b	Heat-shrinkable tubing (L2)	Various	Various	600V, 125°C, VW-1	cURus
30	62	Inductor (L1)	Various	Various	1.0mH. Consisted of Item 62a-62d.	NR
30	62a	Bobbin (L1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
30	62b	Magnet wire (L1)	Various	Various	Polyurethane, N1: Ø0.21mm, 150.5turns, 130°C.	UR
30	62c	Insulation tape (L1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
30	62d	Varnish (L1)	Various	Various	Min. 130°C.	UR
30	63	Inductor (T4)	Various	Various	10uH. Consisted of Item 53a-53b.	NR
30	63a	Magnet wire (T4)	Various	Various	Polyurethane, 130°C. Ø0.3mm, 3turns.	UR
30	63b	Triple Insulated Wire (T4)	TA YA ELECTRIC WIRE & CABLE CO LTD	L-TILWD-B	Reinforced; N1: Ø0.3mm, 3turns; 130°C.	UR
31	64	Input wire of driver	Various	Various	AWM, Min. 300V, Min. 105°C, VW-1, Min. 18AWG.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
31	65	Driver PCB	Various	Various	Single layer PWB, V-0, 130°C, CTI=3 or better, Min.thickness:1.0mm. Complied UL 796.	cURus
31	66	Output wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VW-1, 24AWG.	cURus
32	67	Double ended driver (III)	XIAMEN PVTECH CORPORATION LTD.	XPC-10.5W-1	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.09A, 10.5W.Output: 57.1Vdc, 0.16A. Suitable for dry and damp locations. For model PVST842-10.5WD-180-**K. Consisted of item 68-72, 74-76.	NR
32	67a	Double ended Driver(IV)	XIAMEN PVTECH CORPORATION LTD.	XPC-9W-1	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.08A, 9W.Output: 57.2Vdc, 0.12A. Suitable for dry and damp locations. For model PVST818-9WD-360-**K. Consisted of item 68-72, 74-76.	NR
32	67b	Double ended driver(V)	XIAMEN PVTECH CORPORATION LTD.	XPC-7.5W-1	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.06A, 7.5W. Output: 57.2Vdc, 0.10A.Suitable for dry and damp locations. For model PVST830-7.5WD-180-**K. Consisted of item 68-71, 73-76.	NR
32	68	Varistor (RV1)	Various	Various	SPD type 5, 510Vdc, Min. 105°C.	cURus
32	69	Fuse (F1)	HOLLYLAND CO LTD	5ET	300Vac, 1A.	cURus
32	70	Varistor (RV2)	Various	Various	SPD type 5, 560Vdc, Min. 105°C.	cURus
32	71	Inductor (L2)	Various	Various	5.0mH. Consisted of Item 71a-71b. For model PVST842-10.5WD-180-**K, PVST818-9WD-360-**K, PVST830-7.5WD-180-**K.	NR
32a	71a	Magnet wire (L2)	Various	Various	Polyurethane, 130°C. Ø0.10mm, 429.5turns;	UR
32b	71b	Heat-shrinkable tubing (L2)	Various	Various	600V, 125°C, VWD-1	cURus
32	72	Inductor (L1)	Various	Various	1.8mH. Consisted of Item 72a-72d. For model PVST842-10.5WD-180-**K, PVST818-9WD-360-**K. Refer to illustration 40 for details.	NR
32	72a	Bobbin (L1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
32	72b	Magnet wire (L1)	Various	Various	Polyurethane, N1: Ø0.21mm, 150.5turns, 130°C.	UR
32	72c	Insulation tape (L1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
32	72d	Varnish (L1)	Various	Various	Min. 130°C.	UR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
32	73	Inductor (L1)	Various	Various	2.0mH. Consisted of Item 73a-73d. For model PVST830-7.5WD-180-**K. Refer to illustration 41 for details.	NR
32	73a	Bobbin (L1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
32	73b	Magnet wire (L1)	Various	Various	Polyurethane, N1: Ø0.18mm, 155.5turns, 130°C.	UR
32	73c	Insulation tape (L1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
32	73d	Varnish (L1)	Various	Various	Min. 130°C.	UR
32	74	Inductor (T4)	Various	Various	10uH. Consisted of Item 73a-73b.	NR
32	74a	Magnet wire (T4)	Various	Various	Polyurethane, 130°C. Ø0.3mm, 6turns.	UR
32	74b	Triple Insulated Wire (T4)	TA YA ELECTRIC WIRE & CABLE CO LTD	L-TILWD-B	Reinforced; N1: Ø0.3mm, 6turns; 130°C.	UR
33	75	Input wire of driver	Various	Various	AWM, Min. 300V, Min. 105°C, VWD-1, Min. 18AWG.	cURus
33	75a	Driver PCB	Various	Various	Single layer PWB, V-0, 130°C, CTI=3 or better, Min.thickness:1.0mm. Complied UL 796.	cURus
33	76	Output wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VWD-1, 24AWG.	cURus
34	77	Double ended driver (VI)	XIAMEN PVTECH CORPORATION LTD.	XPC-6W-1	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.05A, 6W. Output: 57.1Vdc, 0.08A. Suitable for dry and damp locations. For model PVST812-6WD-360-**K. Consisted of item 78-80, 80a-80c, 81, 84, 86.	NR
34	77a	Double ended Driver (VII)	XIAMEN PVTECH CORPORATION LTD.	XPC-4.5W-1	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.04A, 4.5W. Output: 57.1Vdc, 0.06A.Suitable for dry and damp locations. For model PVST818-4.5WD-180-**K. Consisted of item 78-80, 80a-80c, 82, 85, 86.	NR
34	77b	Double ended Driver (VIII)	XIAMEN PVTECH CORPORATION LTD.	XPC-3W-1	Non-isolated driver. Input: 120-277Vac, 50/60Hz, 0.03A, 3W.Output: 57.0Vdc, 0.04A. Suitable for dry and damp locations. For model PVST812-3WD-180-**K. Consisted of item 78-80, 80a-80c, 83, 85, 86.	NR
34	78	Varistor (RV1)	Various	Various	SPD type 5, 510Vdc, Min. 105°C.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
28, 30, 32 34	78a	Varistor (RV3)	Various	Various	SPD type 5, 470Vdc, Min. 105°C.	cURus
34	79	Fuse (F1)	HOLLYLAND CO LTD	5ET	300Vac, 1A.	cURus
34	80	Varistor (RV2)	Various	Various	SPD type 5, 560Vdc, Min. 105°C.	cURus
35	80a	Input wire of driver	Various	Various	AWM, Min. 300V, Min. 105°C, VWD-1, Min. 18AWG.	cURus
35	80b	Driver PCB	Various	Various	Single layer PWB, V-0, 130°C, CTI=3 or better, Min.thickness:1.0mm. Complied UL 796.	cURus
35	80c	Output wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VWD-1, 24AWG.	cURus
34	81	Inductor (L2)	Various	Various	5.0mH. Consisted of Item 81a-81b. For model PVST812-6WD-360-**K.	NR
34	81a	Magnet wire (L2)	Various	Various	Polyurethane, 130°C. Ø0.10mm, 429.5turns;	UR
34	81b	Heat-shrinkable tubing (L2)	Various	Various	600V, 125°C, VW-1	cURus
34	82	Inductor (L2)	Various	Various	8.0mH. Consisted of Item 81Ia-81Ib. For model PVST818-4.5WD-180-**K.	NR
34	82a	Magnet wire (L2)	Various	Various	Polyurethane, 130°C. Ø0.09mm, 535turns;	UR
34	82b	Heat-shrinkable tubing (L2)	Various	Various	600V, 125°C, VW-1	cURus
34	83	Inductor (L2)	Various	Various	10.0mH. Consisted of Item 81IIa-81IIb. For model PVST812-3WD-180-**K.	NR
34	83a	Magnet wire (L2)	Various	Various	Polyurethane, 130°C. Ø0.09mm, 590turns;	UR
34	83b	Heat-shrinkable tubing (L2)	Various	Various	600V, 125°C, VW-1	cURus
34	84	Inductor (L1)	Various	Various	2.0mH. Consisted of Item 84a-84d. For model PVST812-6WD-360-**K. Refer to illustration 41 for details.	NR
34	84a	Bobbin (L1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
34	84b	Magnet wire (L1)	Various	Various	Polyurethane, N1: Ø0.18mm, 155.5turns, 130°C.	UR
34	84c	Insulation tape (L1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
34	84d	Varnish (L1)	Various	Various	Min. 130°C.	UR
34	85	Inductor (L1)	Various	Various	4.5mH. Consisted of Item 82Ia-82Id. For model PVST818-4.5WD-180-**K, PVST812-3WD-180-**K. Refer to illustration 42 for details.	NR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
34	85a	Bobbin (L1)	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
34	85b	Magnet wire (L1)	Various	Various	Polyurethane, N1: Ø0.15mm, 233.5turns, 130°C.	UR
34	85c	Insulation tape (L1)	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR
34	85d	Varnish (L1)	Various	Various	Min. 130°C.	UR
34	86	Inductor (T4)	Various	Various	10uH. Consisted of Item 83a-83b.	NR
34	86a	Magnet wire (T4)	Various	Various	Polyurethane, 130°C. Ø0.3mm, 6urns.	UR
34	86b	Triple Insulated Wire (T4)	Various	Various	Reinforced; N1: Ø0.3mm, 6turns; 130°C.	UR
36	87	Power cord set(II)	XIAMEN PVTECH CORPORATION LTD.	PCS-2	120-277Vac, 1.5A. Flexible cord molded with one female connector. Min. 1.5m long.	See 5.0
36	88	Power supply cord	Various	SPT-2	300V, 105°C, VW-1,18AWG.	cURus
			Various	NISPT-2	300V, 105°C, VW-1,18AWG.	cURus
36	89	Input cord connector(II)	XIAMEN PVTECH CORPORATION LTD.	ICC-2	120-277Vac, 1.5A.	See 5.0
38	90	Double ended input connector	XIAMEN PVTECH CORPORATION LTD.	IC-2	120-277Vac,1.5A.	See 5.0
39	91	Double ended output connector	XIAMEN PVTECH CORPORATION LTD.	OC-2	120-277Vac, 1.5A.	See 5.0
40	92	R17d End Cap3	XIAMEN PVTECH CORPORATION LTD.	ECR17d3	120-277Vac, 1.5A.	See 5.0
42	93	R17d End Cap4	XIAMEN PVTECH CORPORATION LTD.	ECR17d4	120-277Vac, 1.5A.	See 5.0
1	94	Labels (not shown)	Various	Various	Min.90°C when attached on metal surface or min.100°C on plastic surface. Complied UL969.	UR
72, 72a	95	Plastic enclosure	SABIC INNOVATIVE PLASTICS US L L C	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm. Secured to input and output connector by fixed glue. For all models.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
72, 72a	96	R17d End Caps	XIAMEN PVTECH CORPORATION LTD.	ECR17d1	120-277Vac, 1.5A. 2pcs, secured to Plastic enclosure by Fixed glue. Same as item 43. Provided rotated joints with stopper, rotated not greater than 180°.	NR
72, 72a , 73	96a	Fixed glue (not shown)	GUANGZHOU BAIYUN CHEMICAL INDUSTRY CO LTD	SMG261 ($)	Silicone "Room Temperature Vulcanizing" (RTV), Min. 0.05mm thickness, RTI: 105°C. Used for fixed the end caps to the plastic enclosure.	cURus
72, 73, 75	97	Heat-shrinkable tubing	Various	Various	600V, 125°C, VW-1, covered the terminals of input, output connectors and lamp caps, and wire connections.	cURus
73, 73a	98	Fixing ring	SABIC INNOVATIVE PLASTICS B V	PC1003R	PC material, V-2, 80°C, Min. thickness: 1.5mm. Two pcs, assembly together by snapped fitting. Secured for input and output connectors by physical fitting.	cURus
73,	99	Closed end Connector	Various	Various	300V, 3A, 105°C, suitable for 26-16AWG wire connection.	UL,CSA
73	100	Internal wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VW-1, 24AWG.	cURus
73	101	Input connector	XIAMEN PVTECH CORPORATION LTD.	IC-2	120-277Vac,1.5A. Non-standardized config, secured to Plastic enclosure by Fixed glue. Same as item 90.	NR
73	102	Output connector	XIAMEN PVTECH CORPORATION LTD.	OC-2	120-277Vac, 1.5A. Non-standardized config, secured to Plastic enclosure by Fixed glue. Same as item 91.	NR
74, 75	103	Heat sink	Various	Various	Extruded aluminum, Min. thickness: 1.1mm. For all models. Fully enclosed by plastic enclosure and lamp caps, secured by physical fitting.	NR
74, 75	104	LED lens	TEIJIN LIMITED RESIN AND PLASTIC	LN-1250G(#)(*)	PC material, V-2, 115°C, Min. thickness: 1.0mm. Secured to LED PCB by snap-in. For all models.	cURus
74, 75	105	LED	Various	Various	Vf: 5.4-6.8V, If: Max.185mA. For all models.	NR
74, 75	106	LED PCB	Various	Various	Single side, Single layer printed wiring board, rated min. V-1, 130°C, CTI ≤ 4, min. 1.0 mm thick. Secured in the slot of Heat sink.	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
74, 75, 76, 78, 80	107	Glue	Various	Various	Silicone "Room Temperature Vulcanizing" (RTV), Min. 2.0mm thickness, RTI: 105°C. Used for secured soldered connection of LED lead wire to LED PCB and used to fixed the driver PCB inside driver housing.	cURus
74, 75	108	Driver housing	CELANESE INTERNATIONAL CORP	FR945	PET material, V-0, CTI 2, HAI 2, HWI 2, 150°C, Min. thickness: 0.81mm. It is long enough to ensure the live parts of the drive to the heat sink which is greater than 10 mm.	cURus
80a	109	LED driver(1)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-7W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 7W. Output: 33Vdc,0.183A, Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111,112,113,114b,115e,116-118.	NR
80	109 a	LED driver(2)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-10W-01	Non-isolated driver. Input: 120-277Vac, 60Hz,10W. Output: 50Vdc,0.180A, Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111,112,113,114a,115d,116-118	NR
78	109 b	LED driver(3)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-13W-01	Non-isolated driver. Input: 120-277Vac, 60Hz,13W. Output: 63Vdc,0.2A, Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111b,112,113,114,115c,116-118.	NR
78a	109 c	LED driver(4)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-16W-01	Non-isolated driver. Input: 120-277Vac, 60Hz,16W. Output: 50Vdc,0.286A, Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of item110,111b,112,113,114a,115b, 116-118	NR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
78b	109 d	LED driver(5)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-18W-01	Non-isolated driver. Input: 120-277Vac, 60Hz,18W. Output: 56Vdc,0.295A Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111b,112,113,114,115b,116-118	NR
78c	109 e	LED driver(6)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-21W-01	Non-isolated driver. Input: 120-277Vac, 60Hz,21W. Output: 62Vdc,0.305A, Suitable for dry and damp locations. Consisted of items 110,111b,112,113,114,115a,116-118	NR
76	109f	LED driver(7)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-26W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 26W. Output: 62Vdc,0.387A, Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111b,112,113,114,115,116-118	NR
78d	109 g	LED driver(8)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-28W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 28W. Output: 45Vdc,0.271A Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of item110,111a,112,113,114a,115b, 116-118	NR
78d	109 h	LED driver(9) (Not shown)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-31W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 31W. Output: 50Vdc,0.280A Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111a,112,113,114a,115b,116-118	NR
78e	109i	LED driver(10)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-37W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 37W. Output: 56Vdc,0.289A, Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111a,112,113,114,107,115b,116-118	NR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
78f	109j	LED driver(11)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-42W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 42W. Output: 62Vdc,0.314A, Suitable for dry and damp locations. Consisted of items 110,111,112,113,114,115a,116-118	NR
76a	109k	LED driver(12) (Not shown)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-47W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 47W. Output: 60Vdc,0.371A, Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111,112,113,114,115,116,-118	NR
76a	109l	LED driver(13) (Not shown)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-50W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 50W. Output: 62Vdc,0.424A, Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111,112,113,114,115,116,-118	NR
76a	109m	LED driver(14)	XIAMEN PVTECH CORPORATION LTD.	PVD-T8D21-52W-01	Non-isolated driver. Input: 120-277Vac, 60Hz, 52W. Output: 60Vdc,0.357A Suitable for dry and damp locations. Secured in Driver housing and installed inside heak sink, Consisted of items 110,111,112,113,114,115,116,-118	NR
72, 72a, 76, 76a, 78, 78a, 78b, 78c, 78d, 78e, 78f, 80, 80a	110	Input wires for LED driver and lamp cap	Various	Various	AWM, stranded type, Min. 300V, Min. 105°C, VW-1, Min. 18AWG.	cURus
76a, 78f	111	Fuse (F1,F2,F3)	ZHONG SHAN LANBAO ELECTRICAL APPLIANCES CO LTD	TB	300Vac, 2A. for driver model PVD-T8D21-42W-01, PVD-T8D21-47W-01, PVD-T8D21-50W-01, PVD-T8D21-52W-01	cURus

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
78d,78e	111a	Fuse (F1,F2,F3)	ZHONG SHAN LANBAO ELECTRICAL APPLIANCES CO LTD	TB	300Vac, 1.6A. for driver model PVD-T8D21-28W-01,PVD-T8D21-31W-01,PVD-T8D21-37W-01.	cURus
76,78,78a,78b,78c,80,80a	111b	Fuse (F1,F2,F3)	ZHONG SHAN LANBAO ELECTRICAL APPLIANCES CO LTD	TB	300Vac, 1A. for driver model PVD-T8D21-7W-01, PVD-T8D21-10W-01, PVD-T8D21-13W-01, PVD-T8D21-16W-01,PVD-T8D21-18W-01, PVD-T8D21-21W-01, PVD-T8D21-26W-01	cURus
76,76a,78,78a,78b,78c,78d,78e,78f,80,80a	112	Varistor (RV1)	SHAANXI HUAXING ELECTRONIC GROUP CO LTD	07K561F	SPD type 5, 350Vac, Min. 125°C.	cURus
			Various	Various		cURus
76,76a,78,78a,78b,78c,78d,78e,78f,80,80a	113	Inductor (L2)	XIAMEN KINWEI ELECTRONICS CO.,LTD	LGB-X0810-3.5mH-W	3.5mH,. Refer to Illustration 55 for construction drawing. contains item 114c-114d. for driver model PVD-T8D21-series.	NR
			Various	Various		NR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
76, 76a ,78, 78b ,78 c,7 8e, 78f	114	Inductor (L3)	XIAMEN KINWEI ELECTRONICS CO.,LTD	LGB-X0810-3.5mH-W	3.5mH,. Refer to Illustration 56 for construction drawing. contains item 114a-114b. for driver model PVD-T8D21-13W-01, PVD-T8D21-18W-01, PVD-T8D21-18W-01, PVD-T8D21-26W-01, PVD-T8D21-37W-01, PVD-T8D21-42W-01, PVD-T8D21-47W-01, PVD-T8D21-50W-01, PVD-T8D21-52W-01	NR
			Various	Various		NR
78a ,78 d,8 0	114 a	Inductor (L3)	XIAMEN KINWEI ELECTRONICS CO.,LTD	LGB-X0810--5.0mH-W	5mH,. Refer to Illustration 56a for construction drawing. contains item 114c-114d. For driver model PVD-T8D21-10W-01, PVD-T8D21-16W-01,PVD-T8D21-28W-01, PVD-T8D21-31W-01	NR
			Various	Various		NR
80a	114 b	Inductor (L3)	XIAMEN KINWEI ELECTRONICS CO.,LTD	LGB-X0608-6mH	6mH,. Refer to Illustration 56b for construction drawing. contains item 114c-114d. for driver model PVD-T8D21-7W-01	NR
			Various	Various		NR
76, 76a , 78, 78a ,78 b, 78c , 78d , 78e , 78f, 80, 80a	114 c	Magnet wire (L2,L3)	Various	Various	Polyurethane, 130°C. Ø0.15mm, 384.5turns.	UR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
76, 76a, 78, 78a, 78b, 78c, 78d, 78e, 78f, 80, 80a	114 d	Heat-shrinkable tubing (L2,L3)	Various	Various	600V, 125°C, VWD-1	cURus
76, 76a	115	Inductor (TR1)	Xiamen Weisheng Industrial Co., Ltd	EDR2507-0. 65MH-60 (130)-5 (4D) 28	0.65 mH. Refer to Illustration 57 for construction drawing. contains item 115f-115i. For driver model PVD-T8D21-26W-01, PVD-T8D21-47W-01, PVD-T8D21-50W-01, PVD-T8D21-52W-01	NR
			Various	Various		NR
78c ,78f	115 a	Inductor (TR1)	Xiamen Weisheng Industrial Co., Ltd	EDR2507-0. 75MH-60 (127)-5 (4D) 28	0.75 mH. Refer to Illustration 57a for construction drawing. contains item 115f-115i. For driver model PVD-T8D21-21W-01, PVD-T8D21-42W-01	NR
			Various	Various		NR
78a ,78c, 78d ,78e	115 b	Inductor (TR1)	Xiamen Weisheng Industrial Co., Ltd	EDR2507-0. 85MH-60 (127)-5 (4D) 28	0.85 mH. Refer to Illustration 57b for construction drawing. contains item 115f-115i. For driver model PVD-T8D21-16W-01,PVD-T8D21-18W-01. PVD-T8D21-28W-01, PVD-T8D21-31W-01, PVD-T8D21-37W-01.	NR
			Various	Various		NR
78	115 c	Inductor (TR1)	Xiamen Weisheng Industrial Co., Ltd	EDR2507-1.2MH-60 (127)-5 (4D) 28	1.2 mH. Refer to Illustration 57c for construction drawing. contains item 115f-115i. For driver model PVD-T8D21-13W-01.	NR
			Various	Various		NR
80	115 d	Inductor (TR1)	Xiamen Weisheng Industrial Co., Ltd	ES13-1.2-270 (118)-1 (7D) 4	1.2 mH. Refer to Illustration 57d for construction drawing. contains item 115f-115i. For driver model PVD-T8D21-10W-01.	NR
			Various	Various		NR
80a	115 e	Inductor (TR1)	Xiamen Weisheng Industrial Co., Ltd	ES13-1.0-210 (118)-1 (7D) 4	1.0 mH. Refer to Illustration 57e for construction drawing. contains item 115f-115i. For driver model PVD-T8D21-7W-01.	NR
			Various	Various		NR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
76, 76a, 78, 78a, 78b, 78c, 78d, 78e, 78f, 80, 80a	115f	Bobbin of TR1	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic Molding Compound (PMC), V-0, RTI 150°C, CTI=3, HWI=1, HAI=0, Min.thickness 0.75mm.	UR
76, 76a, 78, 78a, 78b, 78c, 78d, 78e, 78f, 80, 80a	115 g	Magnet wire(N1) of TR1	Various	Various	Polyurethane, N1: Ø0.21mm, 150.5turns, 130°C.	UR
76, 76a, 78, 78a, 78b, 78c, 78d, 78e, 78f, 80, 80a	115 h	Insulation tape of TR1	Various	Various	Polyethylene-terephalate film insulating tapes with acrylic adhesive, 130°C.	UR

4.0 Critical Components						
Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
76, 76a, 78, 78a, 78b, 78c, 78d, 78e, 78f, 80, 80a	115i	Varnish of TR1	Various	Various	Thermoset varnish, rated 130°C, completely encloses the coil windings.	UR
76, 76a, 78, 78a, 78b, 78c, 78d, 78e, 78f, 80, 80a	116	Varistor (RV2)	SHAANXI HUAXING ELECTRONIC GROUP CO LTD	07K471F	SPD type 5, 300Vac, Min. 125°C.	cURus
			Various	Various		cURus
76, 76a, 78, 78a, 78b, 78c, 78d, 78e, 78f, 80, 80a	117	Output wire of driver	Various	Various	AWM, 3000Vdc, 200°C, VWD-1, 24AWG.	cURus
77, 79, 81	118	Driver PCB	Various	Various	Single layer PWB, V-0, 130°C, CTI=3 or better, Min. thickness 1.0mm. Complied UL 796.	cURus

4.0 Critical Components

Photo #	Item no.[1]	Name	Manufacturer/ trademark[2]	Type / model[2]	Technical data and securement means	Mark(s) of conformity [3]
44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70	119	Marking Labels (not shown)	Various	Various	Min. 90°C when attached on metal surface or min.100°C on plastic surface. Complied UL969.	UR

NOTES:

1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.

2) “Various“ means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.

3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.

5.0 Critical Unlisted CEC Components

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
5	8	Input connector	XIAMEN PVTECH CORPORATION LTD.	IC-1

Electrical Rating:	120-277Vac, 1.5A
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	XIAMEN TIANYU PLASTIC INDUSTRY CO LTD	PC-DX	PC material, 5VA, 120°C, HWI=2, HAI=0, CTI=0, Min. thickness: 3.0mm.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.4mm. L, N pin molded inside the connector for 1.7mm depth.

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **CEC**	Number of samples to test: **1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
7	10	Output connector	XIAMEN PVTECH CORPORATION LTD.	OC-1

Electrical Rating:	120-277Vac, 1.5A
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	XIAMEN TIANYU PLASTIC INDUSTRY CO LTD	PC-DX	PC material, 5VA, 120°C, HWI=2, HAI=0, CTI=0, Min. thickness: 3.0mm.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.3mm. L, N pin molded inside the connector for 4.7mm depth.

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **CEC**	Number of samples to test: **1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

5.0 Critical Unlisted CEC Components

SUBASSEMBLY				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
19	40	Power cord set(I)	XIAMEN PVTECH CORPORATION LTD.	PCS-1
Electrical Rating:	120-277Vac, 1.5A			Insulation class NA
Component Standard used:	UL 817:2015 Ed.12+R:20Aug2018 CSA C22.2#21:2018 Ed.10			

COMPONENTS LIST

Photo #	Item no.	Photo #	Item no.	Photo #	Item no.	Photo #	Item no.	Photo #	Item no.
19	41	19	42						

VERIFICATION PROCESS

Frequency:	**Annual**	Test Site:	**CEC**	Number of samples to test:	**1**

Test Name	Test Parameters
Verify Construction	Per the component descriptions noted above

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
19	42	Input cord connector(I)	XIAMEN PVTECH CORPORATION LTD.	ICC-1
Electrical Rating:	120-277Vac, 1.5A			
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1			

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	SABIC INNOVATIVE PLASTICS B V	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.3mm. L, N pin molded inside the connector for 3.0mm depth.

VERIFICATION PROCESS

Frequency:	**Annual**	Test Site:	**CEC**	Number of samples to test:	**1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

5.0 Critical Unlisted CEC Components

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
22	43	R17d End Cap1	XIAMEN PVTECH CORPORATION LTD.	ECR17d1

Electrical Rating:	120-277Vac, 1.5A
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1 UL 496:2017 Ed.14

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	SABIC INNOVATIVE PLASTICS B V	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm.
Internal wire	Various	Various	AWM, Min. 300V, Min. 105°C, VW-1, Min. 18AWG.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.3mm. L, N pin molded inside the connector for 4.7mm depth.

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **CEC**	Number of samples to test: **1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
24	44	R17d End Cap2	XIAMEN PVTECH CORPORATION LTD.	ECR17d2

Electrical Rating:	120-277Vac, 1.5A
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1 UL 496:2017 Ed.14

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	SABIC INNOVATIVE PLASTICS B V	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.4mm. L, N pin molded inside the connector for 1.7mm depth.

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **CEC**	Number of samples to test: **1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

5.0 Critical Unlisted CEC Components

SUBASSEMBLY				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
36	87	Power cord set(II)	XIAMEN PVTECH CORPORATION LTD.	PCS-2
Electrical Rating:	120-277Vac, 1.5A			Insulation class NA
Component Standard used:	UL 817:2015 Ed.12+R:20Aug2018 CSA C22.2#21:2018 Ed.10			

COMPONENTS LIST

Photo #	Item no.	Photo #	Item no.	Photo #	Item no.	Photo #	Item no.	Photo #	Item no.
36	88	36	89						

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **CEC**	Number of samples to test: **1**

Test Name	Test Parameters
Verify Construction	Per the component descriptions noted above

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
36	89	Input cord connector(II)	XIAMEN PVTECH CORPORATION LTD.	ICC-2
Electrical Rating:	120-277Vac, 1.5A			
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1			

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	SABIC INNOVATIVE PLASTICS B V	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.3mm. L, N pin molded inside the connector for 3.0mm depth.

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **CEC**	Number of samples to test: **1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

5.0 Critical Unlisted CEC Components

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
38	90	Double ended input connector	XIAMEN PVTECH CORPORATION LTD.	IC-2

Electrical Rating:	120-277Vac, 1.5A
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	SABIC INNOVATIVE PLASTICS B V	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.4mm. L, N pin molded inside the connector for 1.7mm depth.

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **CEC**	Number of samples to test: **1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
39	91	Double ended output connector	XIAMEN PVTECH CORPORATION LTD.	OC-2

Electrical Rating:	120-277Vac, 1.5A
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1

MATERIALS LIST

Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	SABIC INNOVATIVE PLASTICS B V	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.3mm. L, N pin molded inside the connector for 4.7mm depth.

VERIFICATION PROCESS

Frequency: **Annual**	Test Site: **CEC**	Number of samples to test: **1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

5.0 Critical Unlisted CEC Components

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
40	92	R17d End Cap3	XIAMEN PVTECH CORPORATION LTD.	ECR17d3
Electrical Rating:	120-277Vac, 1.5A			
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1 UL 496:2017 Ed.14			

MATERIALS LIST			
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	SABIC INNOVATIVE PLASTICS B V	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm.
Internal wire	Various	Various	AWM, Min. 300V, Min. 105°C, VW-1, Min. 18AWG.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.4mm. L, N pin molded inside the connector for 1.7mm depth.

VERIFICATION PROCESS					
Frequency:	**Annual**	Test Site:	**CEC**	Number of samples to test:	**1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

CONTACTS				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
42	93	R17d End Cap4	XIAMEN PVTECH CORPORATION LTD.	ECR17d4
Electrical Rating:	120-277Vac, 1.5A			
Component Standard used:	UL 498:2017 Ed.16+R:17Jan2020 CSA C22.2#42:2010 Ed.7 +U1 UL 496:2017 Ed.14			

MATERIALS LIST			
Component	Manufacturer	Type/model	Dimensions/thickness/assembly information
Housing of connector	SABIC INNOVATIVE PLASTICS B V	LUX7636C(f1)(gg*)	PC material, V-0, 120°C, HWI=3, HAI=0, CTI=3, Min. thickness: 1.0mm.
Contact of connector	Various	Various	Copper alloy, Min. thickness: 0.3mm. L, N pin molded inside the connector for 4.7mm depth.

VERIFICATION PROCESS					
Frequency:	**Annual**	Test Site:	**CEC**	Number of samples to test:	**1**

Test Name	Test Parameters			
Overload Cycling (only contacts with make/break rating)	Volts	Current	Power factor	Number of cycles
	277Vac	2.25A	0.75-0.80	50
Dielectric Strength	Apply voltage Between		Test Voltage	Test Time
	Live parts of opposite polarity		2500Vac	60S
	Live parts and dead metal		NA	NA

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 6.4 mm minimum spacing are maintained through air and 9.5 mm minimum spacing are maintained over surfaces of insulating material between current-carrying parts of opposite polarity and between such current-carrying parts and dead-metal parts or low voltage isolated circuits.
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - NA
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a <metal or non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - NA
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets.
8. Schematics - Refer to Illustration No(s). 2, 5-12, 19, 53 for schematics requiring verification during Field Representative Inspection Audits.
9. Markings - The following marking was marked by laser printing or label system showing in 4.0 item 94,119 on enclosure surface as follows:
   (Refer to Illustration 1 for rating marking sample.)
   b) Applicant's name or brand name (S16-L2)
   c) Model no. (S16-L2)
   d) Date code of at least the month and year of manufacture (S16-L2)
   e) Input rating in volts(V), hertz(HZ), and total amperes(A) and watts(W) (S24-L3)
   f) Supply connection marking (e.g. Connection drawing with letter "L" and "N") (S24-L3)

6.0 Critical Features

10. Cautionary Markings - The following marking was marked by laser printing or label system showing in 4.0 item 94, 119 on enclosure surface as follows:
- Units for damp location use: "SUITABLE FOR DAMP LOCATIONS" & "CONVIENT AUX EMPLACEMENTS HUMIDES" (S13L1, Verbatim)
"SUITABLE FOR OPERATION IN AMBIENT NOT EXCEEDING 45 °C" & "PEUT ÊTRE UTILISÉ À UNE TEMPÉRATURE AMBIANTE N'EXCÉDANT PAS 45°C "(S24-L2).
"Maximum interconnect current 0.68A" & "Courant interconnecté maximum 0.68A"
"USE ONLY ELECTRIC SIGN WITH MIN. LAMP COMPARTMENT DIMENSIONS XXmm x XXmm x XXmm" and "UTILISEZ UNIQUEMENT UN SIGNAL ÉLECTRIQUE MIN. LAMPE DIMENSIONS DU COMPARTIMENT XXmm x XXmm x XXmm." - Refer to section 2.0 for the dimension XX.

Cautionary Markings - The following are marked on additional label shown in 4.0 items 94,119, it is required for the retrofit sign.
"This sign has been modified to operate LED lamps. Do not attempt to install or operate * lamps in this sign" - shall be marked on the retrofitted sign where readily visible by the user during normal maintenance including relamping. " * " shall be replaced by the original illumination type such as "fluorescent," "HID," etc. This marking shall be provided on a separate permanent label that is intended to remain in the applied position for the lifetime of the sign under conditions of normal use.

11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer.
The instruction manual shall contained the following information: (S16-L5)
1. INSTALLATION OR ASSEMBLY INSTRUCTIONS
a. Wiring instructions that specify the proper method of connecting the grounding means and maintaining polarity shall be included with the luminaire in a manner that will require the installer to handle the instructions during installation.
b. Specification of mounting hardware shall be included in the instruction sheet.
c. Other warnings that will not lead to misuse.
d. Product instruction (Refer to Illustration 1a).
2. "THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS" & "NE CONVIENT PAS AUX SORTIES DE SECOURS" (L2)
3. "WARNING – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of sign electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician."
4." WARNING – Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign."
5. "WARNING – Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts."
6. "Installer should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit."

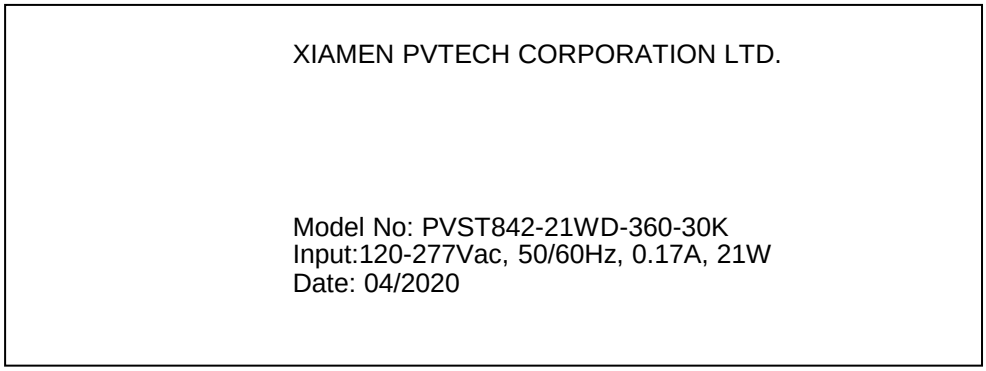
6.0 Critical Features

11. (Cont'd) 7. Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.".
8. "Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation."
9. "Repair and seal any unused openings in the electrical enclosure. Openings greater than 12.7-mm (1/2-in) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk".
10. For models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K,PVT8-series model: "WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit with existing shunted bi-pin lampholders in the host sign. Note: Shunted lampholders are found only in fluorescent signs with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED retrofit kit manufacturer."
11. "This sign has been modified to operate LED lamps. Do not attempt to install or operate fluorescent lamps in this sign"
NOTE: This marking shall be provided on a separate permanent label that is intended to remain in the applied position for the lifetime of the sign under conditions of normal use.

12. "WARNING - INSTALL THIS KIT ONLY IN THE SIGN THAT HAS THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE PHOTOGRAPHS AND/ OR DRAWINGS AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE SIGN."
13. "WARNING - TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS.".

7.0 Illustrations

Illustration 1 - Marking 1 (Model No.PVST842-21WD-360-30K as representative)



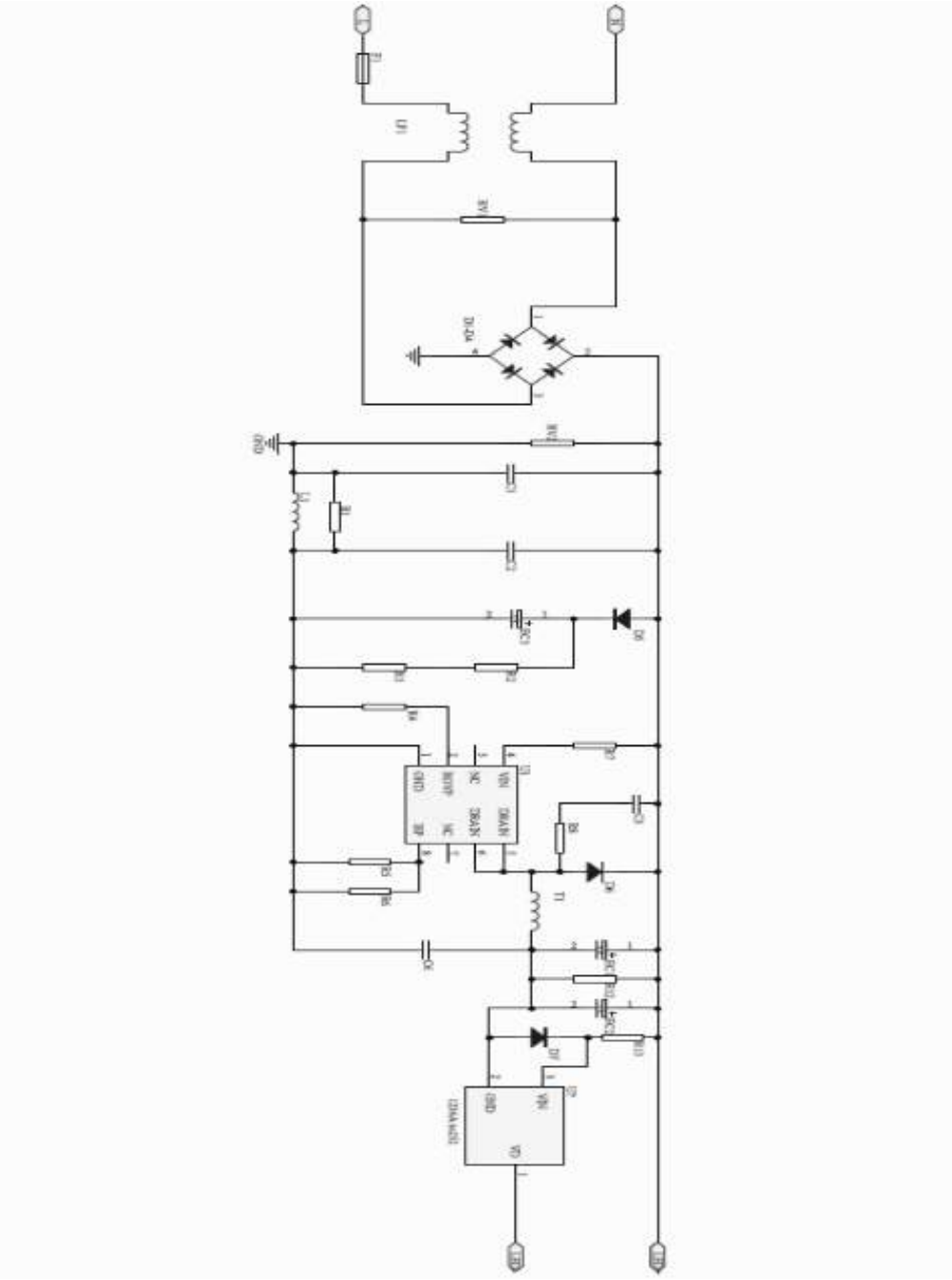
Notes:
1. It shall be marked on the exterior surface of product.
2. All other models have similar label as above except model No., current and wattage are different (refer to section 2.0).

Illustration 1a - The product instructions are to include the following information for models PVT8- series models

a) Kit parts list
b) Identification and preparation of host sign
c) Identify what parts to remove
d) Determine required number of LED kits for illumination
e) Mounting of LED kits
f) a list of components required to be supplied by the installer. (i.e. wire connector)

7.0 Illustrations

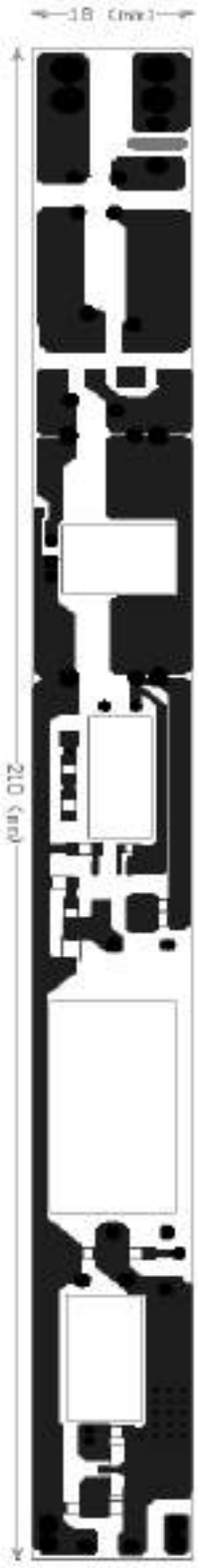
Illustration 2 - Schematic circuit diagram of LED driver for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K



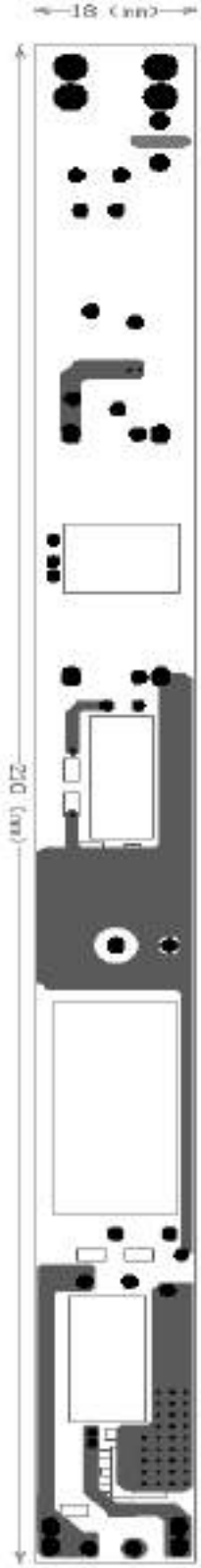
7.0 Illustrations

Illustration 3 - Silk-screen and PCB layout of LED driver for model PVST842-21W-360-**K

Top View



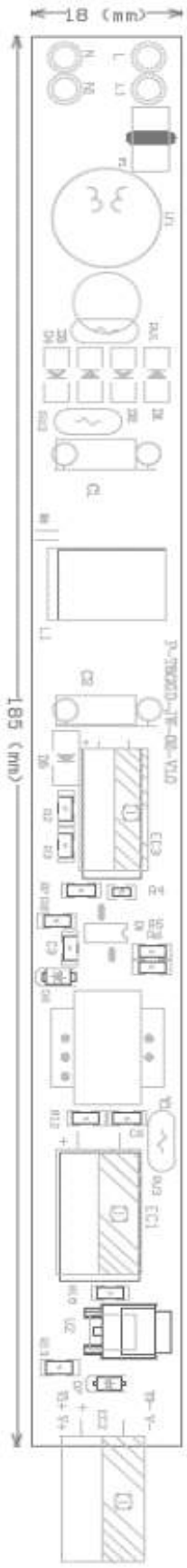
Bottom View

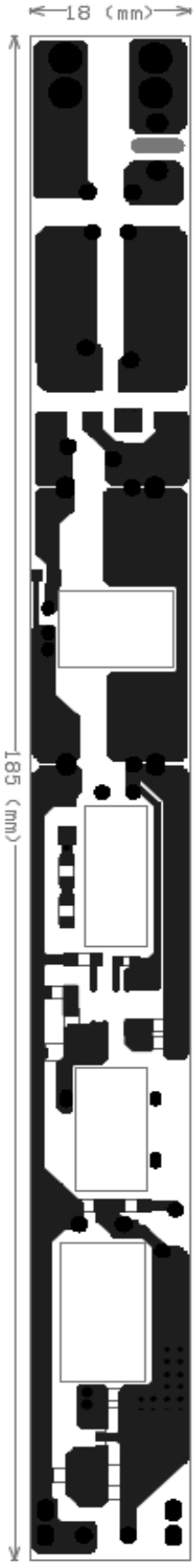


7.0 Illustrations

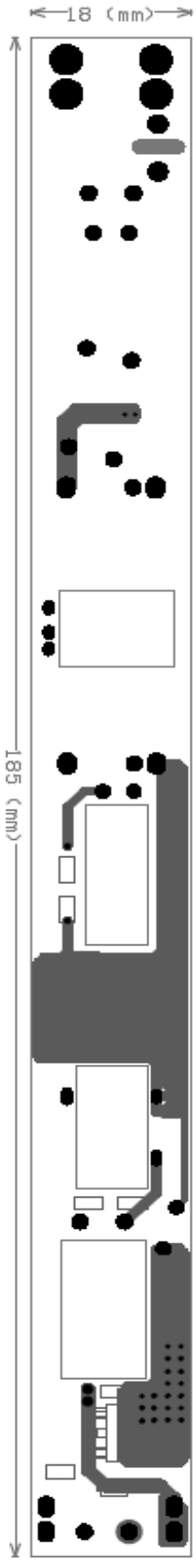
Illustration 4 - Silk-screen and PCB layout of LED driver for model PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

Top View



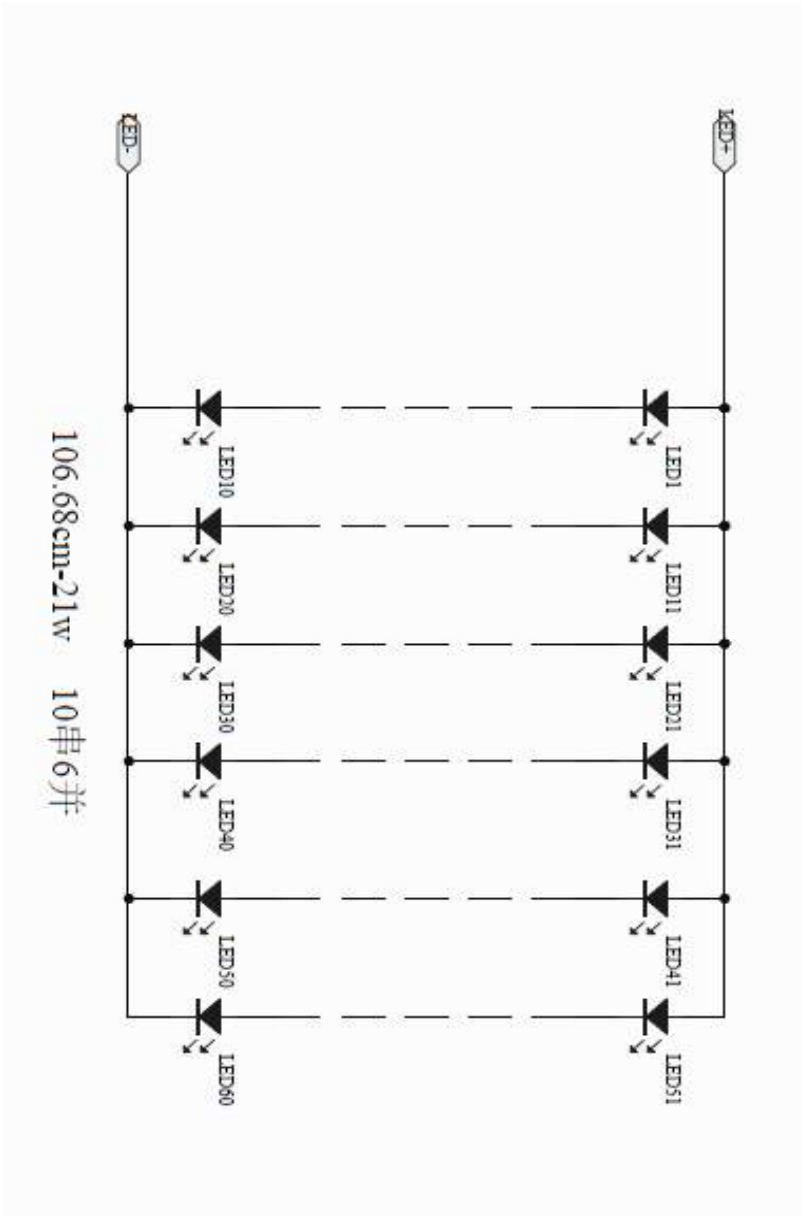


Bottom View



7.0 Illustrations

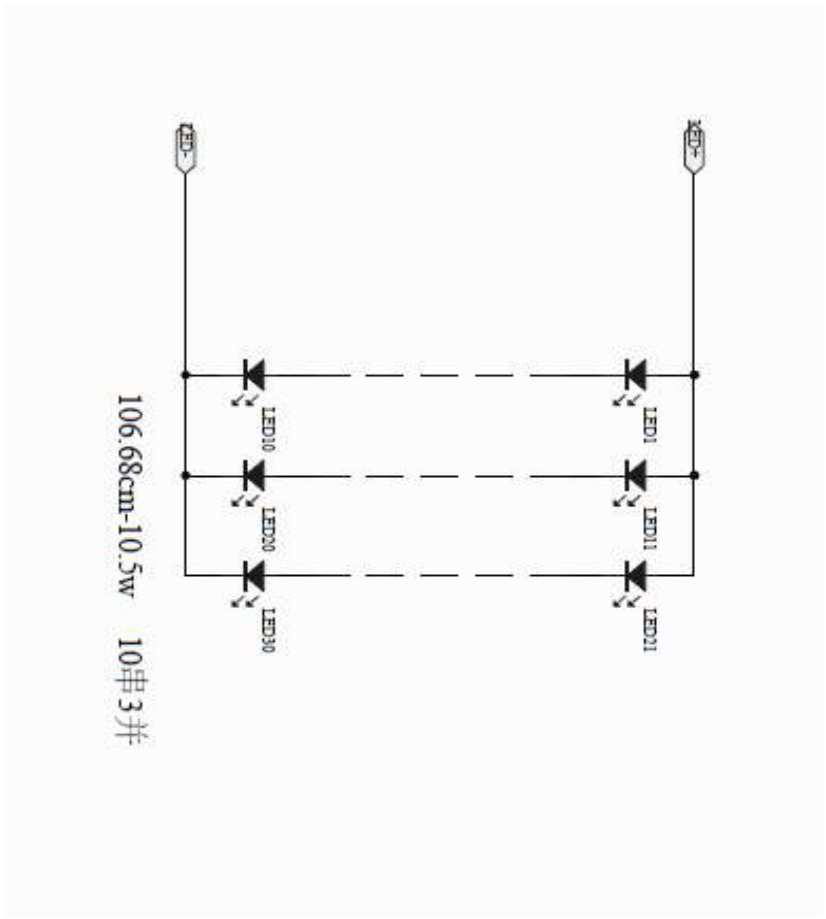
Illustration 5 - Schematic circuit diagram and PCB layout of LED PCB for model PVST842-21W-360-**K, PVST842-21WD-360-**K



2PCS provided

7.0 Illustrations

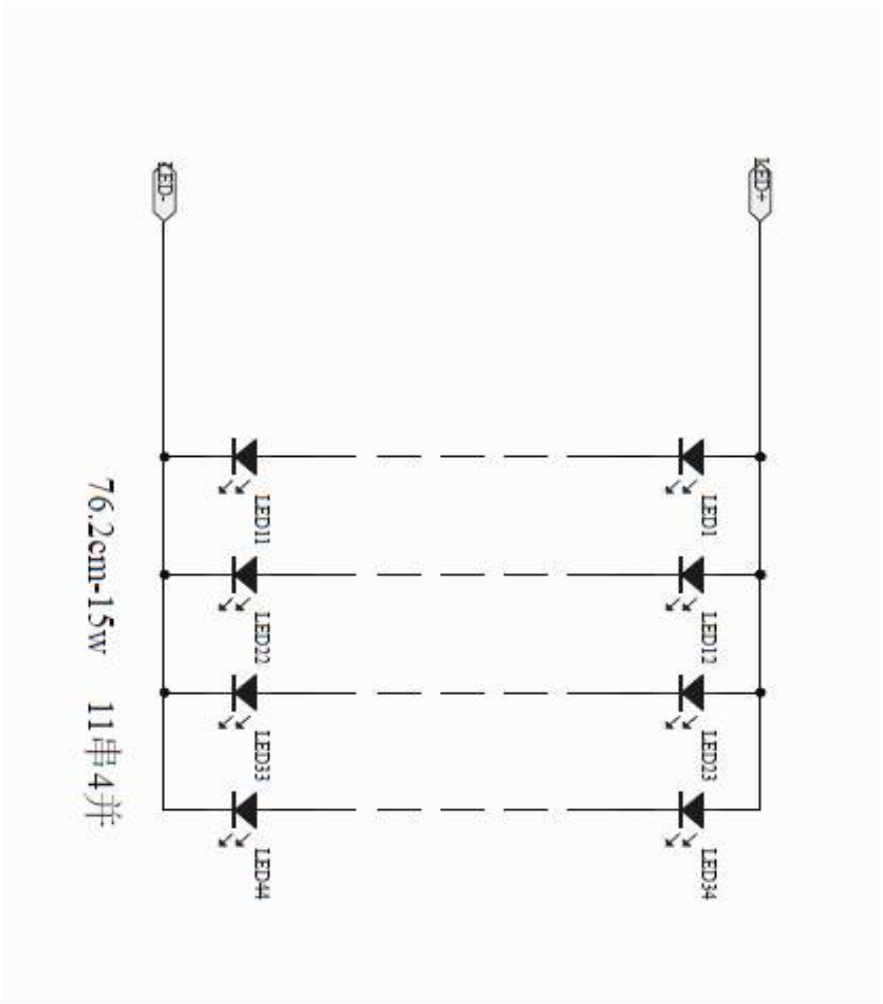
Illustration 6 - Schematic circuit diagram and PCB layout of LED PCB for model PVST842-10.5W-180-**K, PVST842-10.5WD-180-**K



1PCS provided

7.0 Illustrations

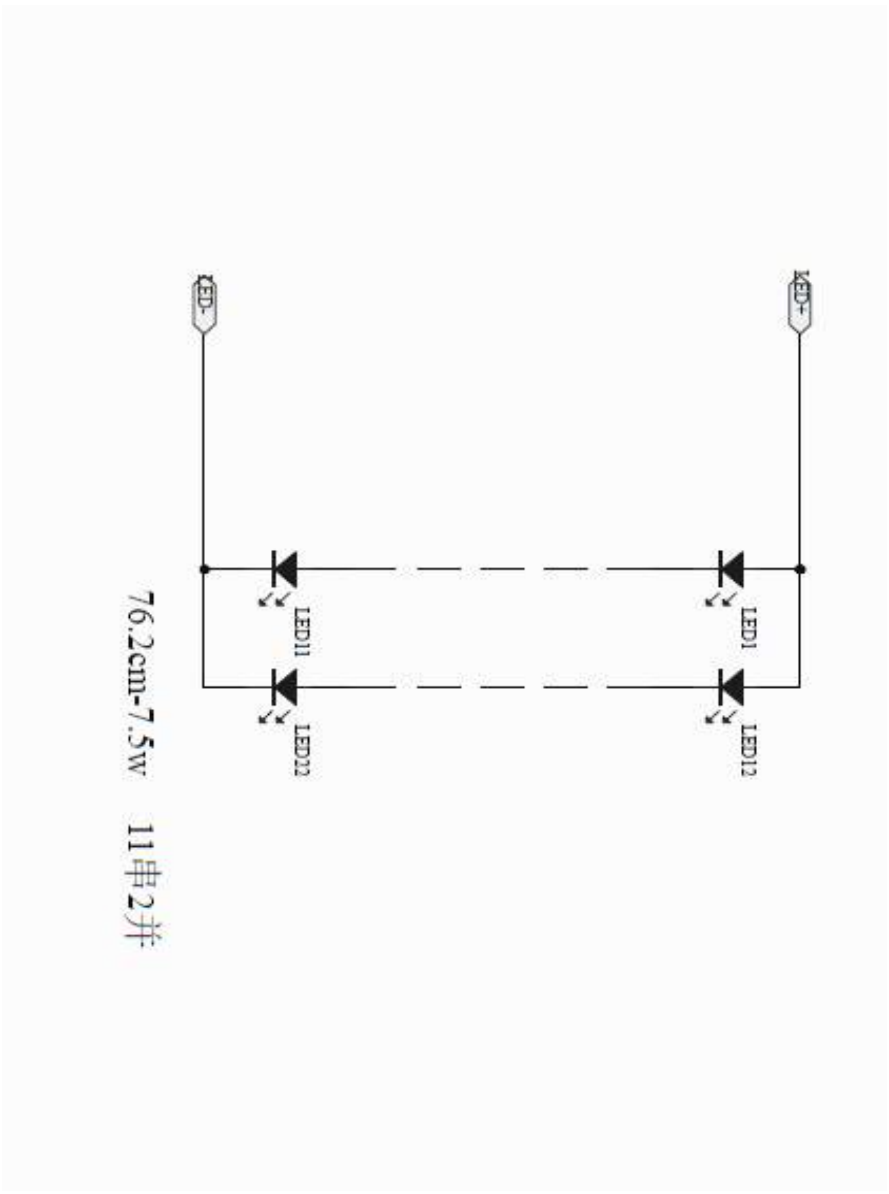
Illustration 7 - Schematic circuit diagram and PCB layout of LED PCB for model PVST830-15W-360-**K, PVST830-15WD-360-**K



2PCS provided

7.0 Illustrations

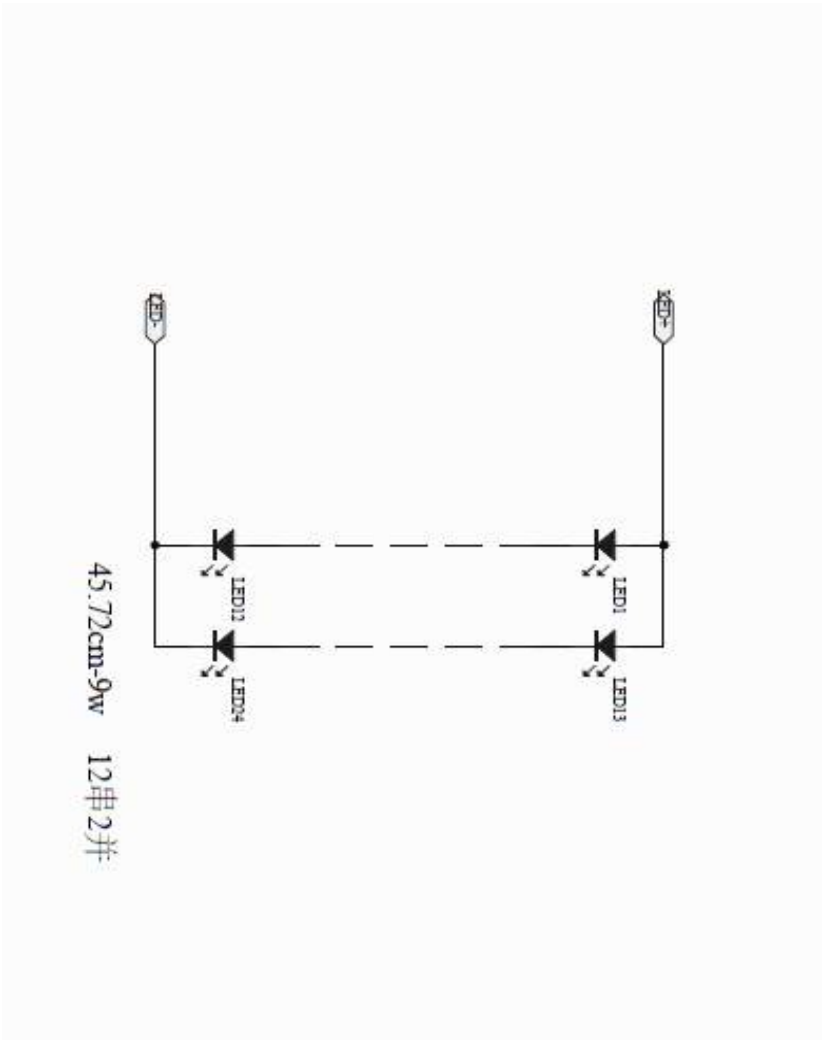
Illustration 8 - Schematic circuit diagram and PCB layout of LED PCB for model PVST830-7.5W-180-**K, PVST830-7.5WD-180-**K



1PCS provided

7.0 Illustrations

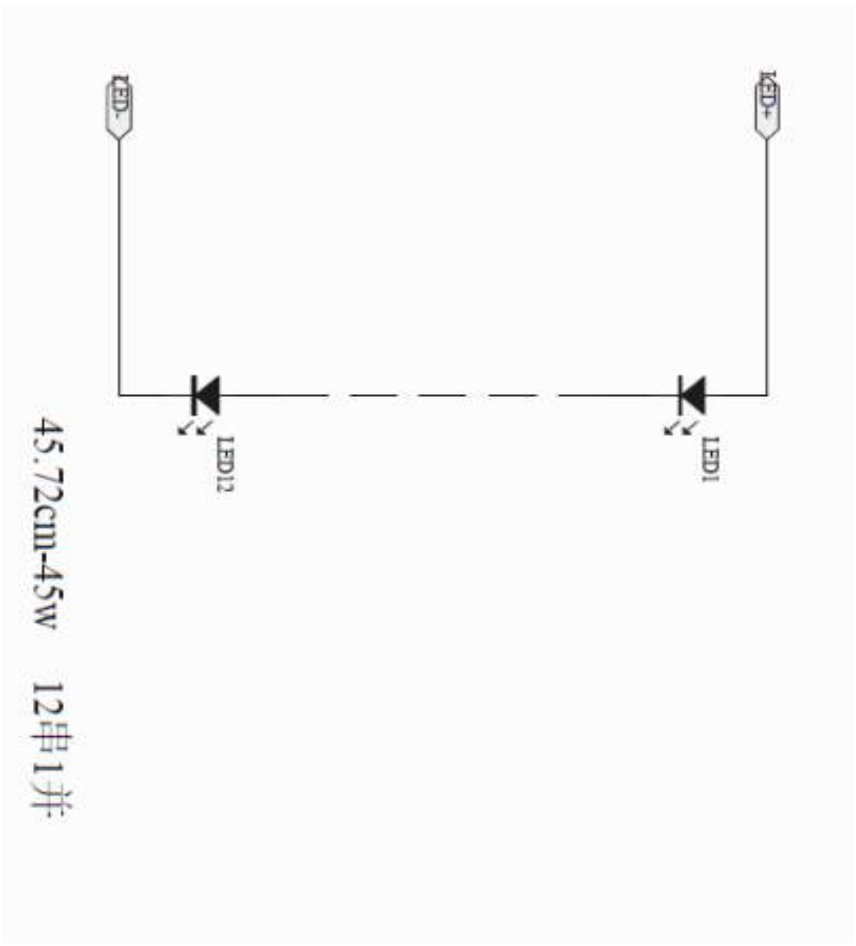
Illustration 9 - Schematic circuit diagram and PCB layout of LED PCB for model PVST818-9W-360-**K, PVST818-9WD-360-**K



2PCS provided

7.0 Illustrations

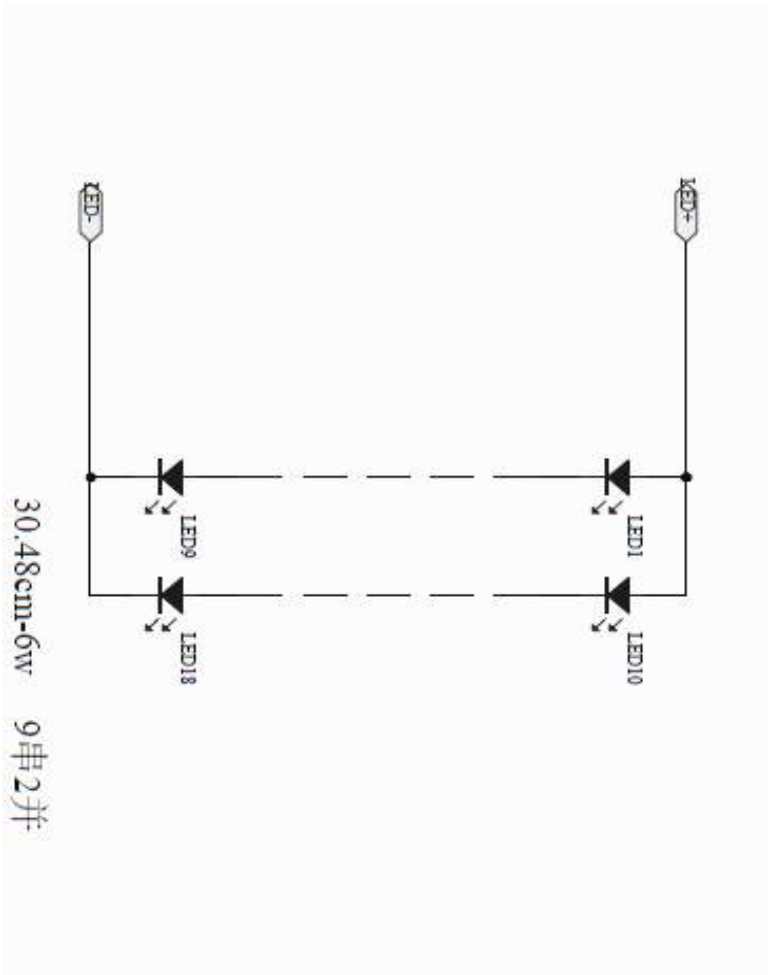
Illustration 10 - Schematic circuit diagram and PCB layout of LED PCB for model PVST818-4.5W-180-**K, PVST818-4.5WD-180-**K



1PCS provided

7.0 Illustrations

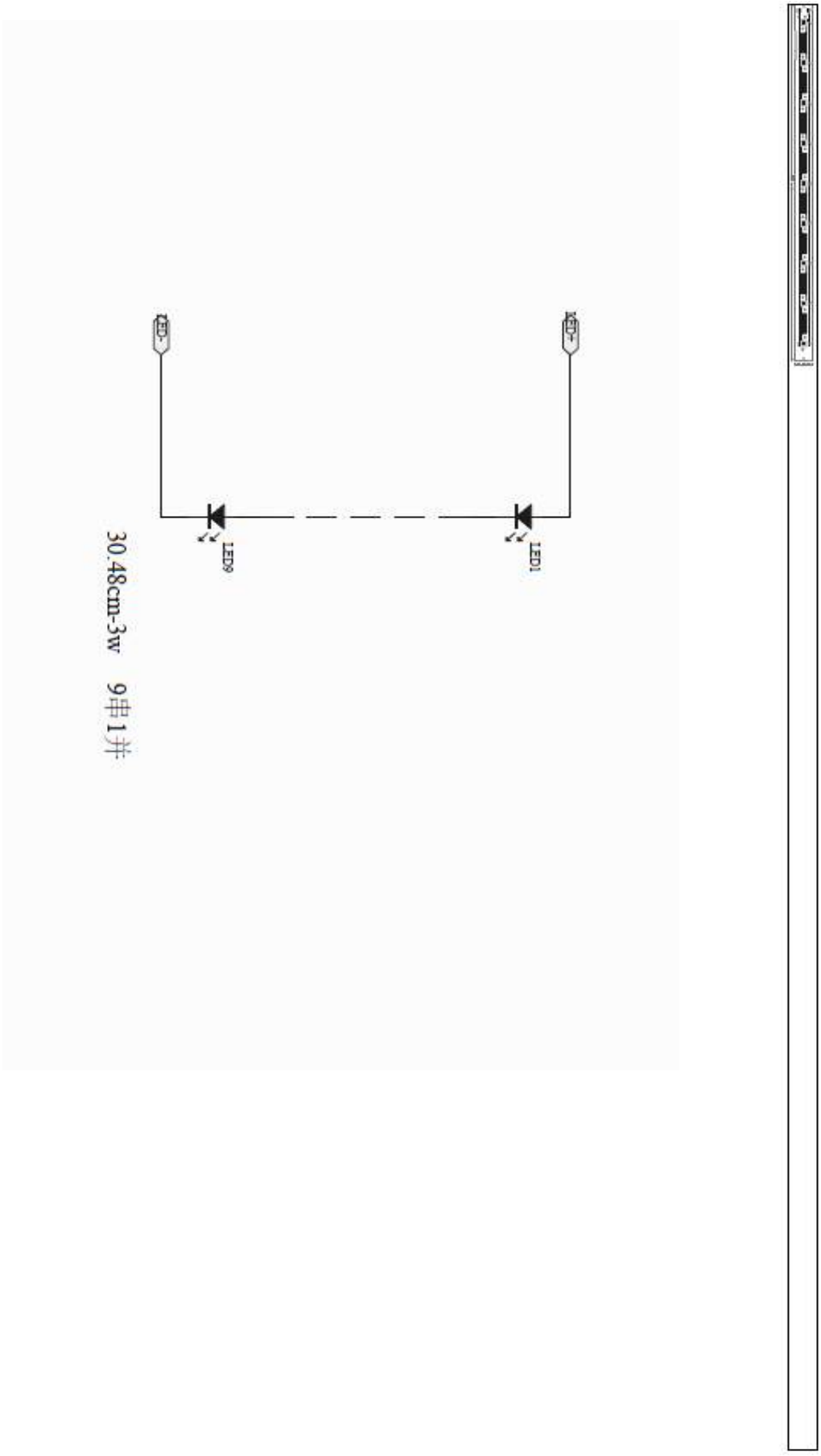
Illustration 11 - Schematic circuit diagram and PCB layout of LED PCB for model PVST812-6W-360-**K, PVST812-6WD-360-**K



2PCS provided

7.0 Illustrations

Illustration 12 - Schematic circuit diagram and PCB layout of LED PCB for model PVST812-3W-180-**K, PVST812-3WD-180-**K



1PCS provided

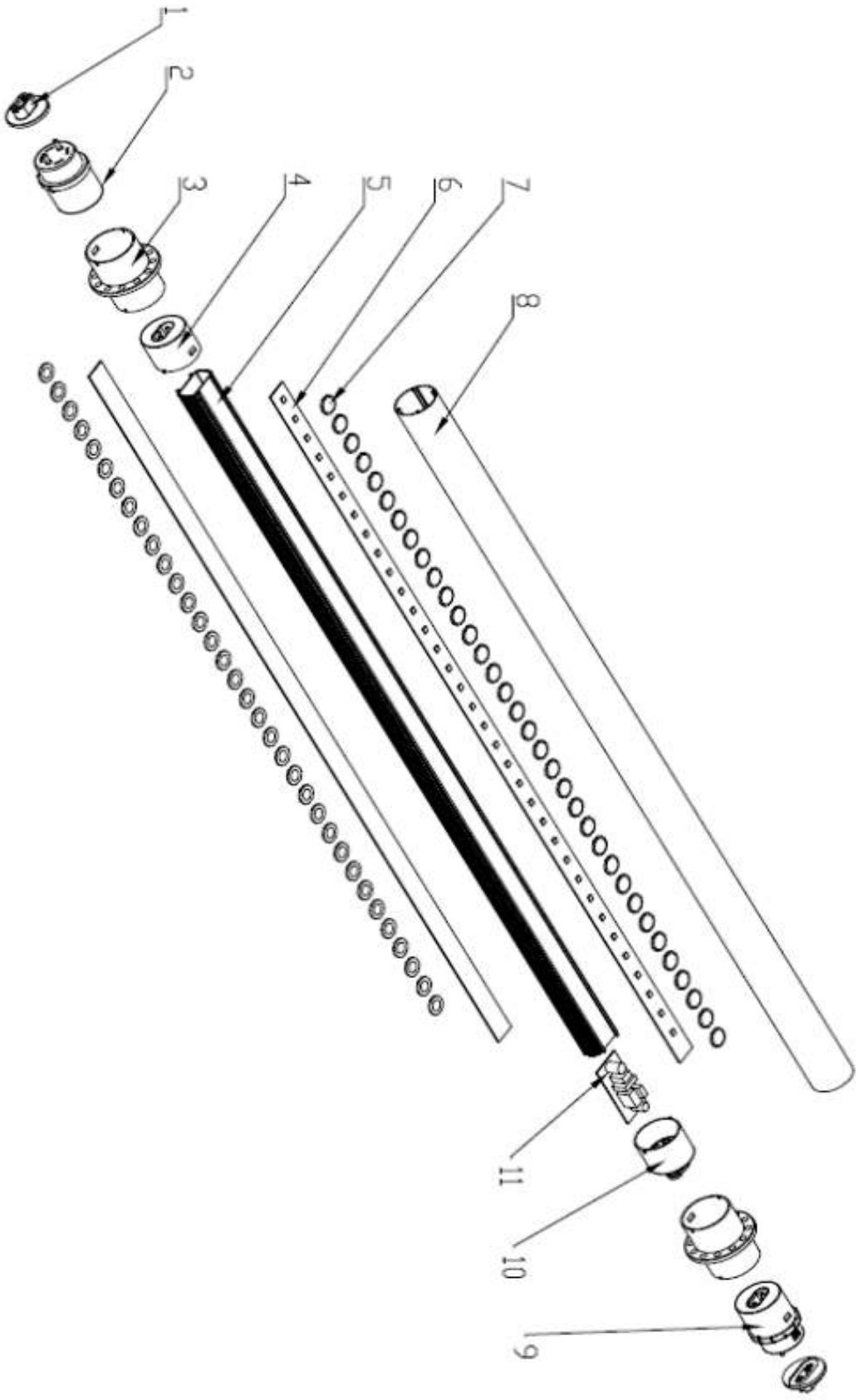
7.0 Illustrations

Illustration 13 - The differences in components for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

Driver	C1	C2	L1	T1	EC2	U3
XPC-21W	450V, 150nF	450V, 150nF	8*10 5000uH	0.65mH	100V, 220uF	70V, 2.3A
XPC-15W	450V, 68nF	450V, 150nF	8*10 5000uH	1.0mH	100V, 100uF	70V, 2.3A
XPC-9W	450V, 47nF	450V, 100nF	6*8 5000uH	1.4mH	--	70V, 2.3A
XPC-6W	450V, 47nF	450V, 68nF	6*8 5000uH	2.2mH	--	70V, 0.8A
XPC-10.5W	450V, 47nF	450V, 100nF	6*8 5000uH	1.4mH	100V, 56uF	70V, 2.3A
XPC-7.5W	450V, 47nF	450V, 68nF	6*8 5000uH	2.2mH	--	70V, 2.3A
XPC-4.5W	450V, 47nF	450V, 47nF	6*8 5000uH	4.5mH	--	70V, 0.8A
XPC-3W	450V, 22nF	450V, 47nF	6*8 5000uH	4.5mH	--	70V, 0.8A

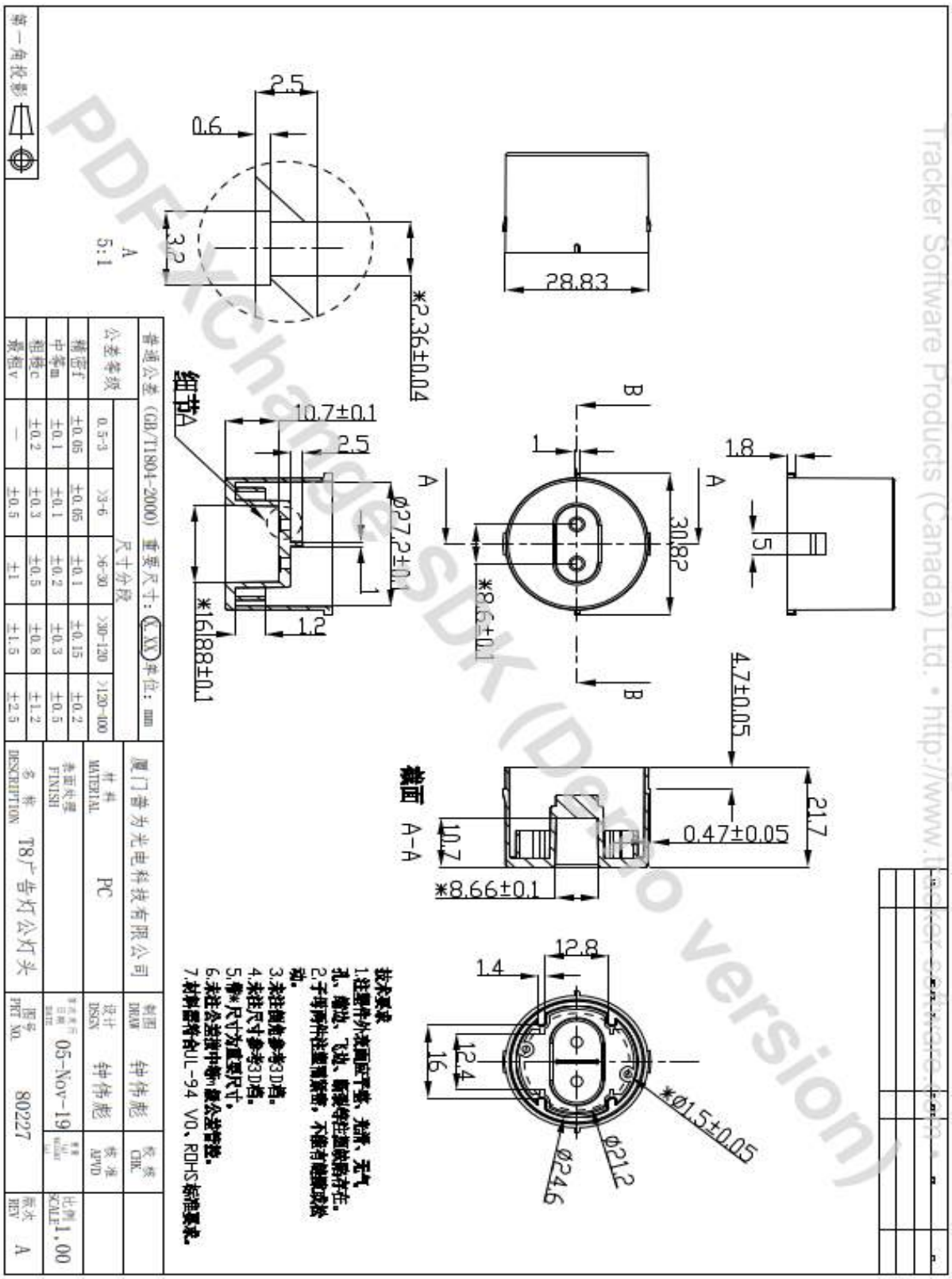
7.0 Illustrations

Illustration 14 - Explosive view for model PVST842-21WD-360-**K, also representing other models



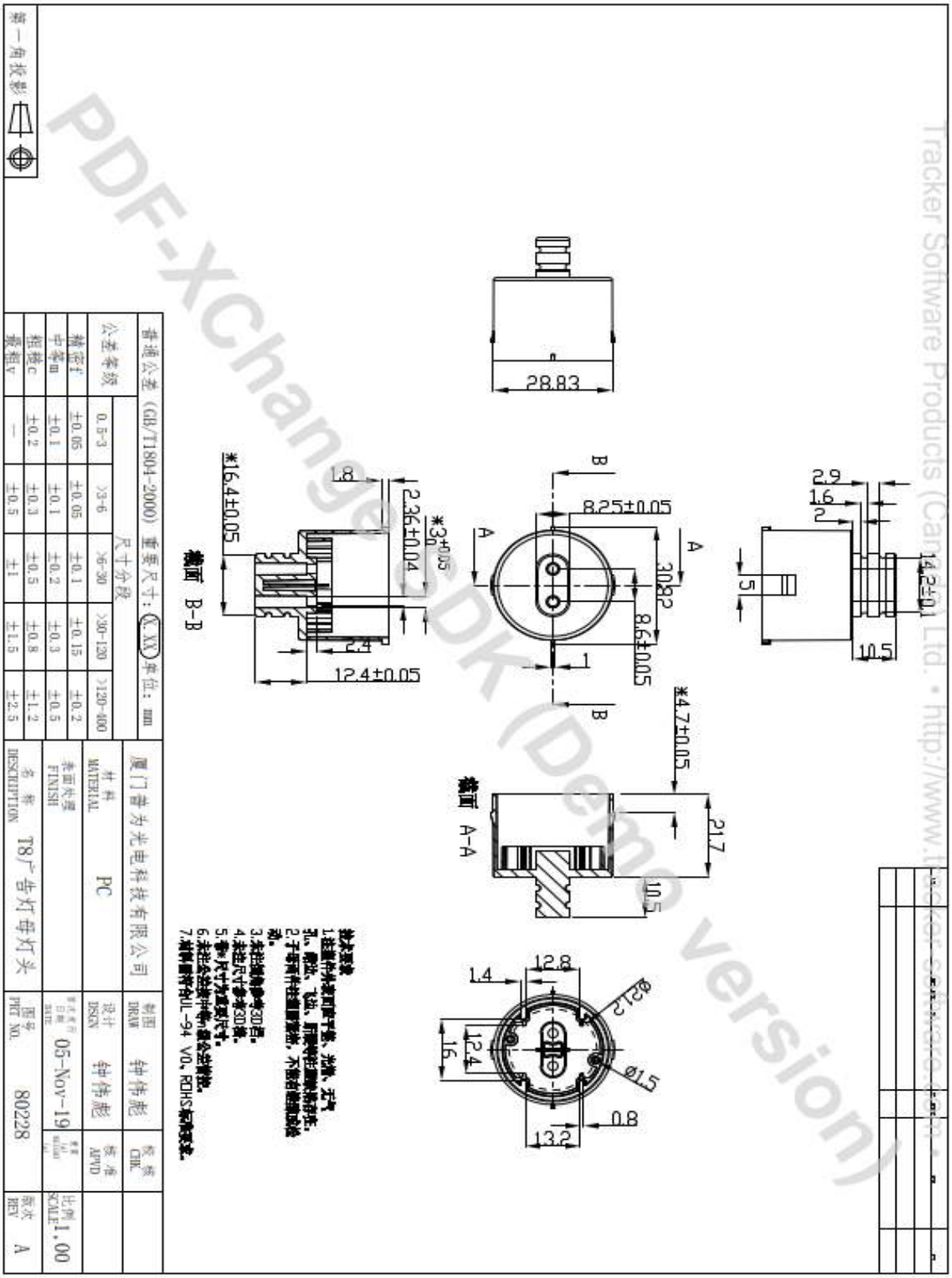
7.0 Illustrations

Illustration 15 - Structural dimension of input connector for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K



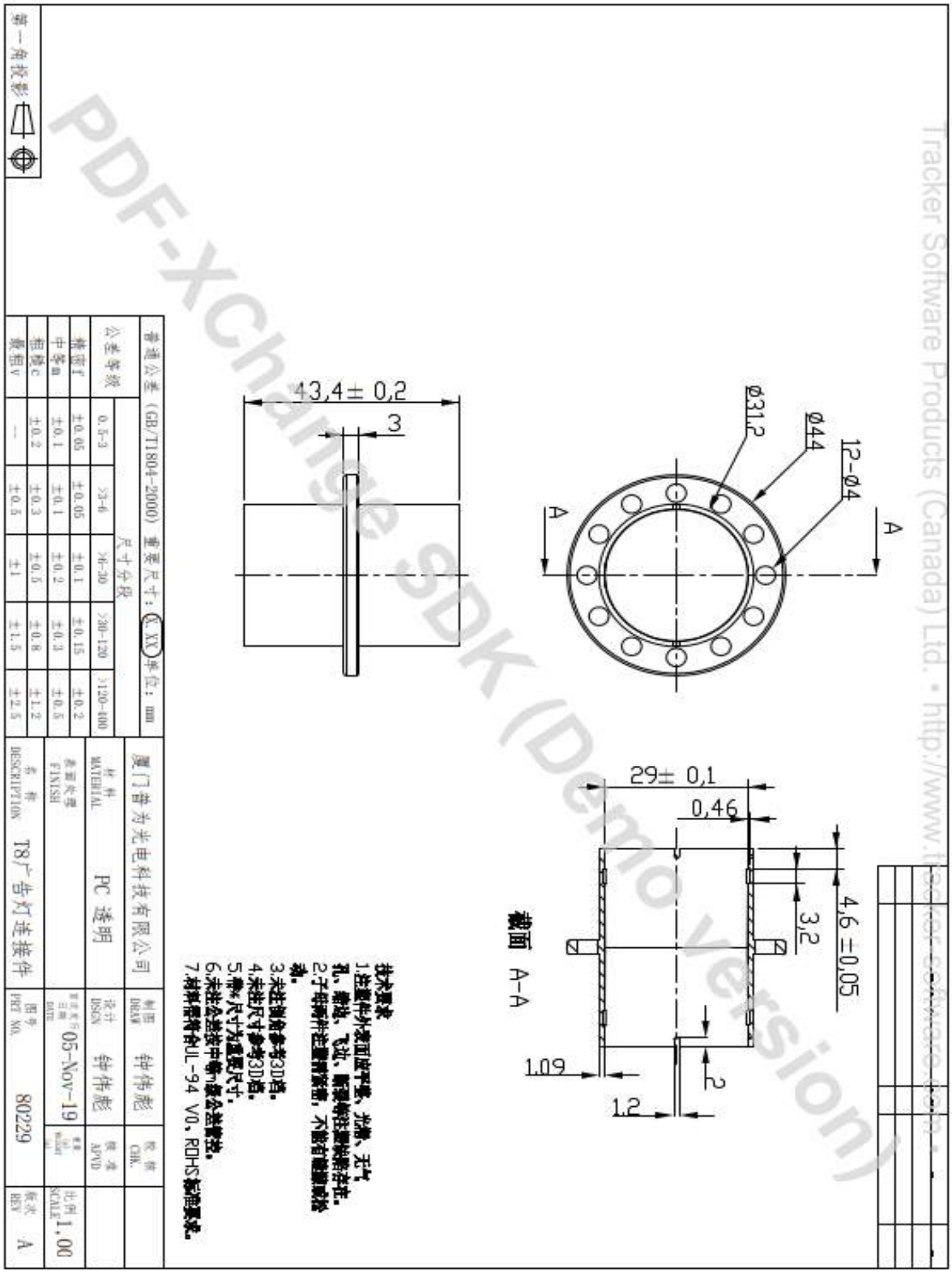
7.0 Illustrations

Illustration 16 - Structural dimension of output connector for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K



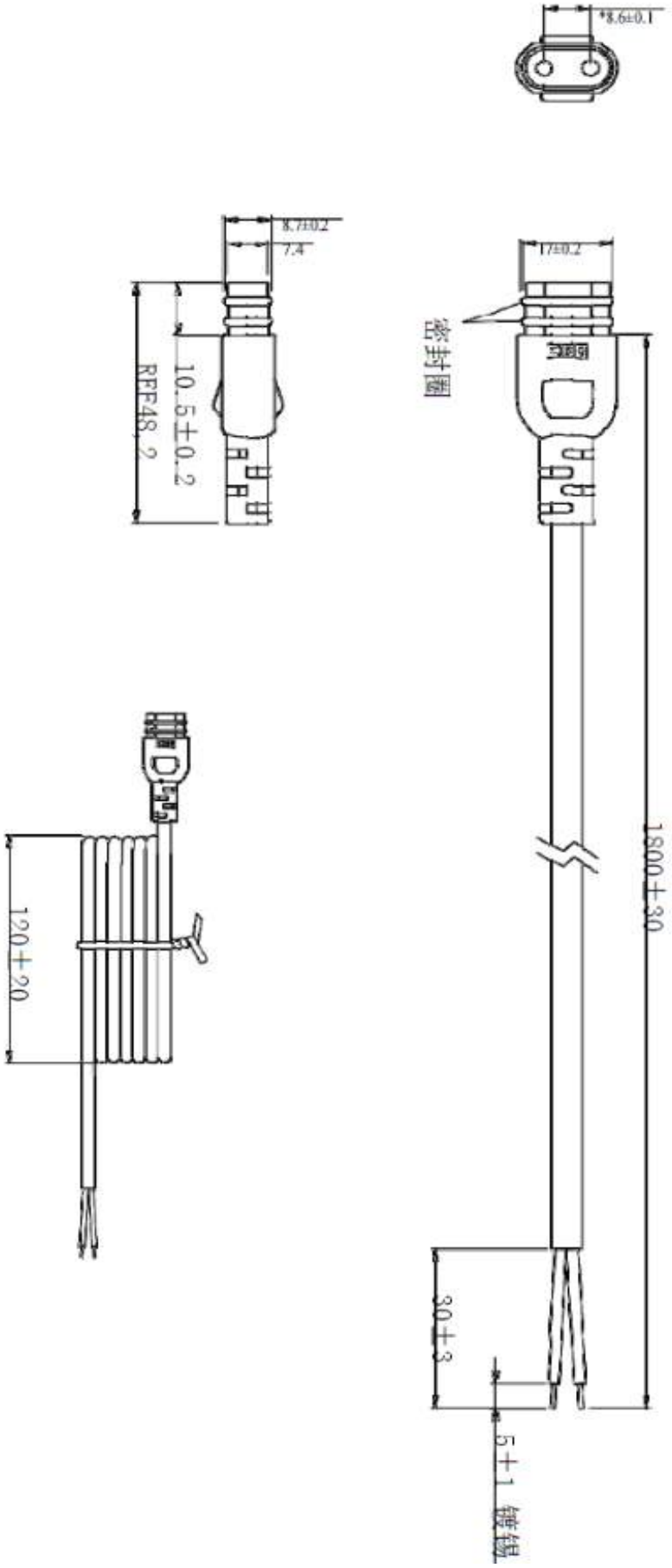
7.0 Illustrations

Illustration 17 - Structural dimension of fastening for all models



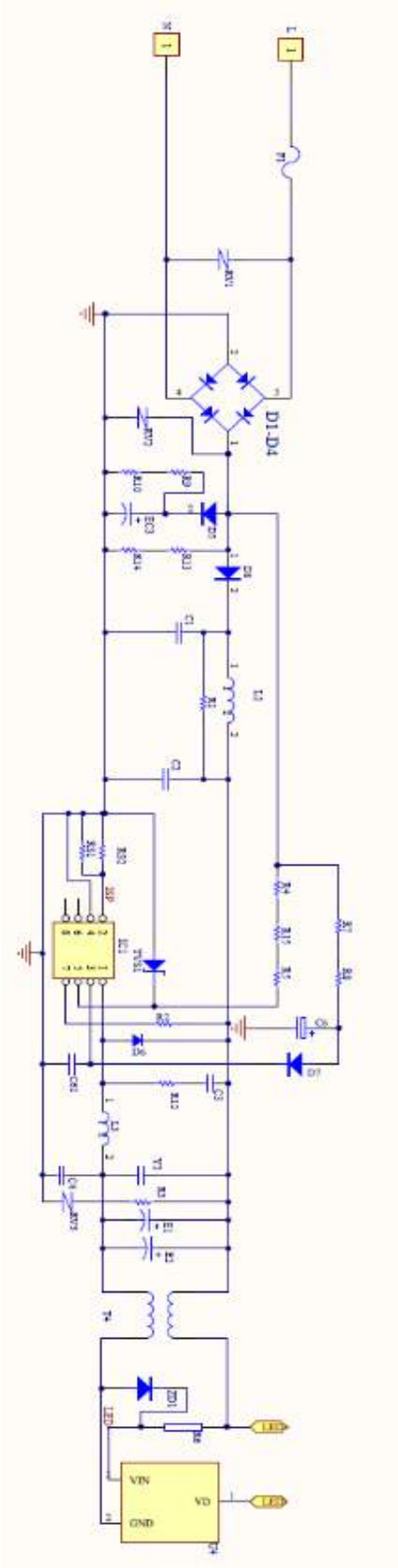
7.0 Illustrations

Illustration 18 - Structural dimension of power cord set



7.0 Illustrations

Illustration 19 - Schematic circuit diagram of alternative LED driver for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

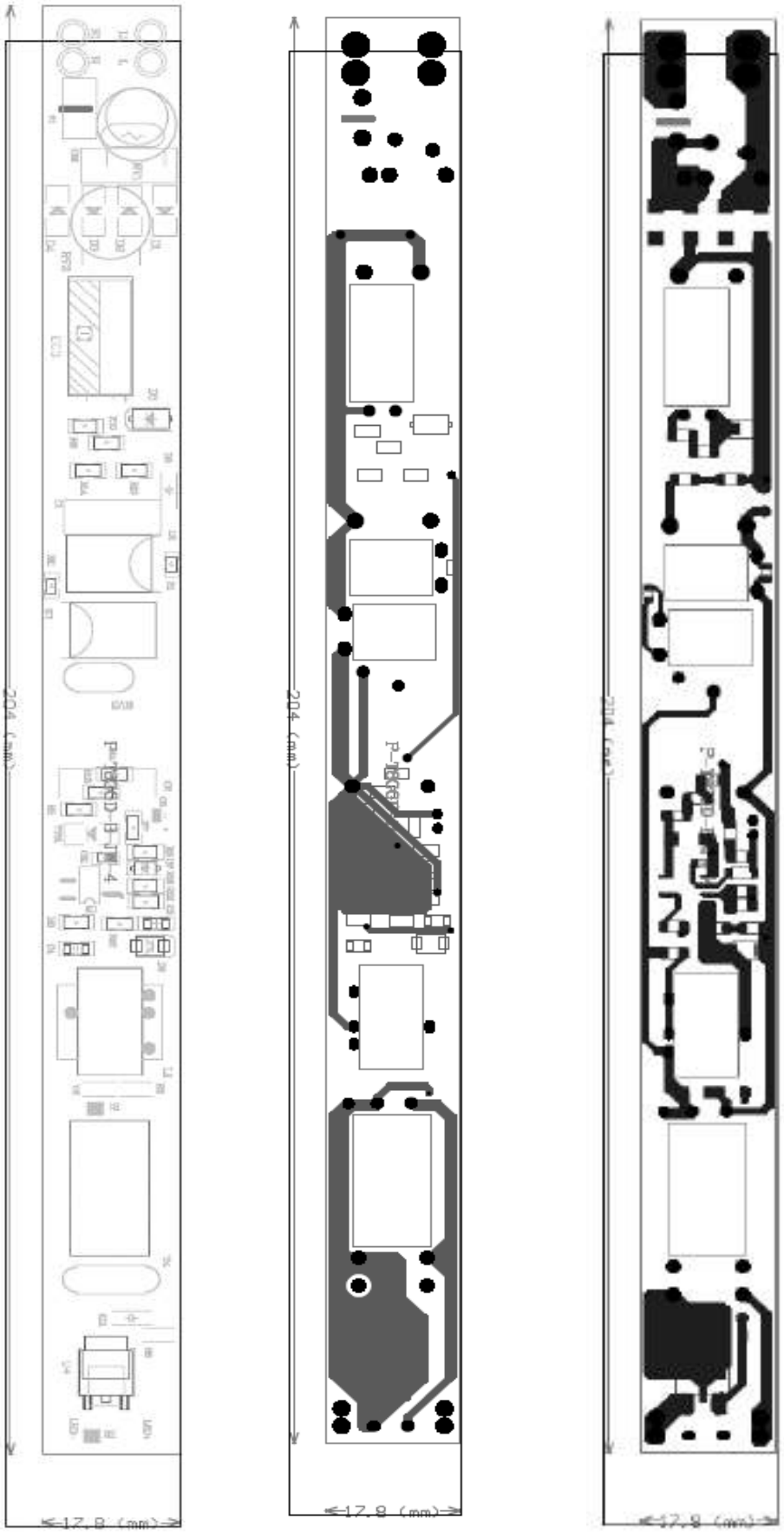


7.0 Illustrations

Illustration 20 - Silk-screen and PCB layout of alternative LED drivers for all models

Top View

Bottom View



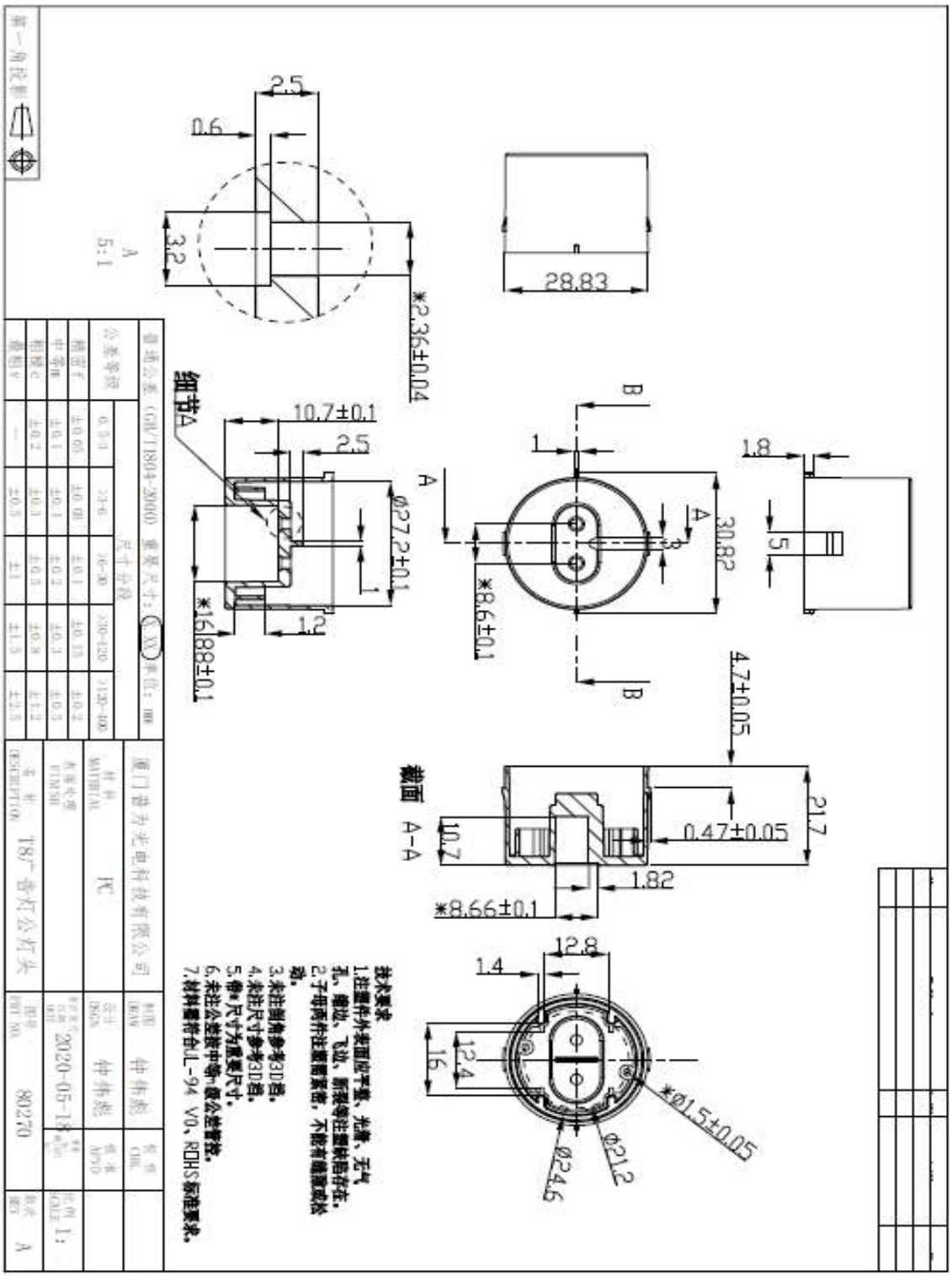
7.0 Illustrations

Illustration 21 - The differences in components for all LED drivers

Driver	C1	C2	L2	L1	EC2	U3	T4
XPC-21W-1	450V, 150nF	450V, 150nF	8*10 3.5mH	0.55mH	100V, 220uF	70V, 2.3A	9*5*3 50UH
XPC-15W-1	450V, 68nF	450V, 150nF	8*10 5mH	1.0mH	100V, 100uF	70V, 2.3A	9*5*3 50UH
XPC-9W-1	450V, 47nF	450V, 100nF	6*8 5mH	1.8mH	--	70V, 2.3A	9*5*3 10UH
XPC-6W-1	450V, 47nF	450V, 68nF	6*8 5mH	2.0mH	--	70V, 0.8A	9*5*3 10UH
XPC-10.5W-1	450V, 47nF	450V, 100nF	8*10 3.5mH	1.8mH	100V, 56uF	70V, 2.3A	9*5*3 10UH
XPC-7.5W-1	450V, 47nF	450V, 68nF	6*8 5mH	2.0mH	--	70V, 2.3A	9*5*3 10UH
XPC-4.5W-1	450V, 47nF	450V, 47nF	6*8 8mH	4.5mH	--	70V, 0.8A	9*5*3 10UH
XPC-3W-1	450V, 22nF	450V, 47nF	6*8 10mH	4.5mH	--	70V, 0.8A	9*5*3 10UH

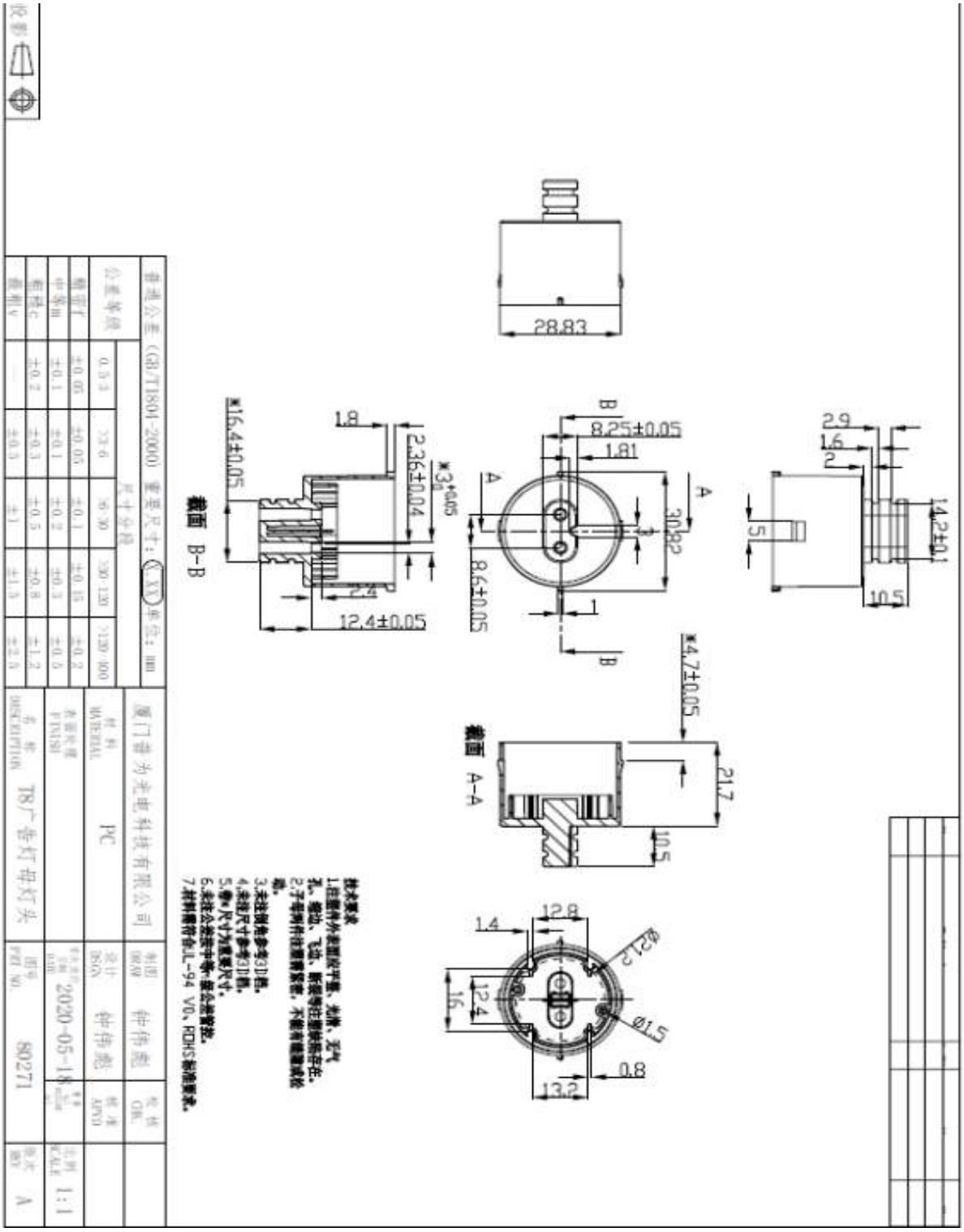
7.0 Illustrations

Illustration 22 - Structural dimension of alternative input connector



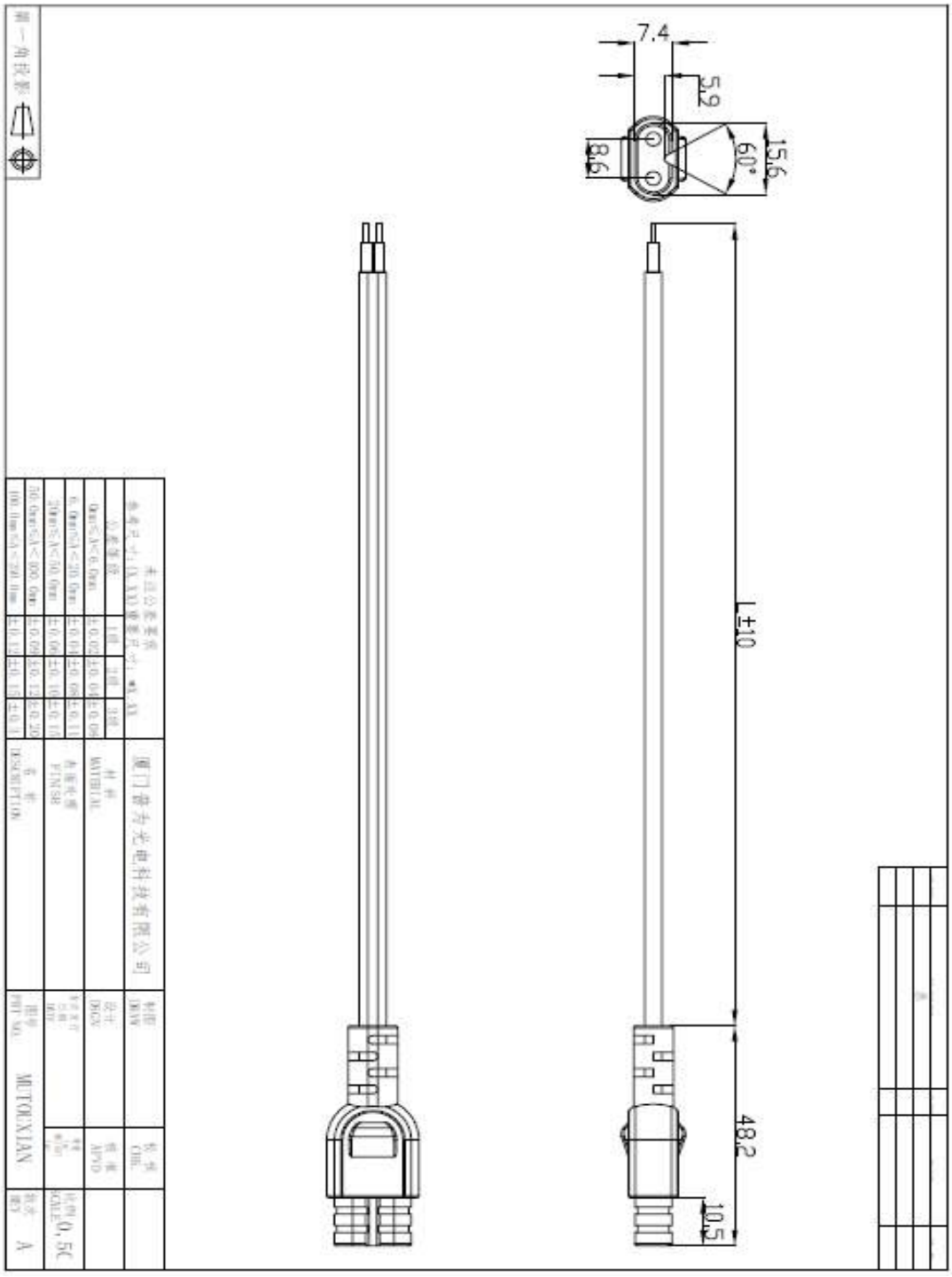
7.0 Illustrations

Illustration 23 - Structural dimension of output connector for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K



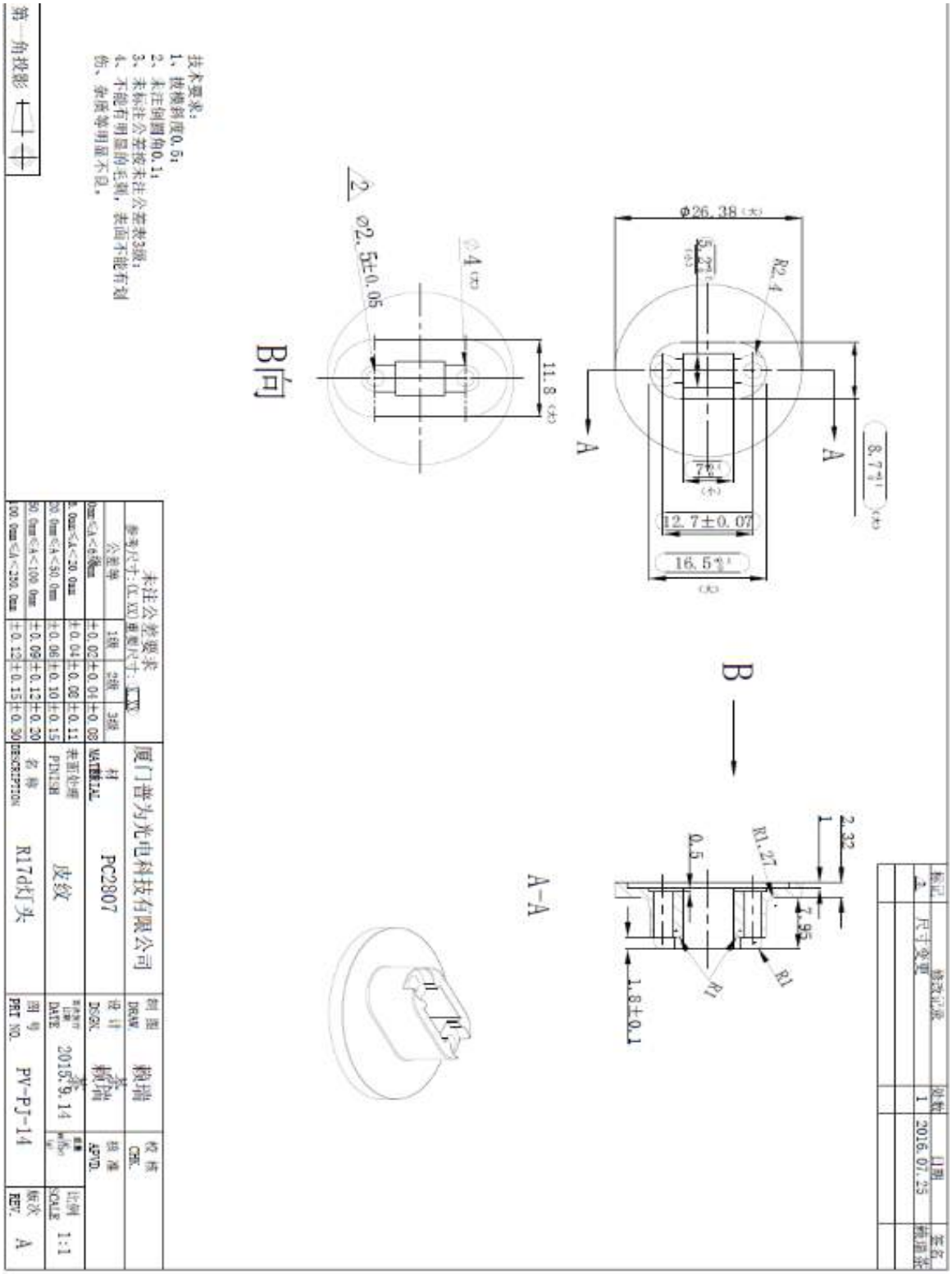
7.0 Illustrations

Illustration 24 - Structural dimension of power cord set for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K



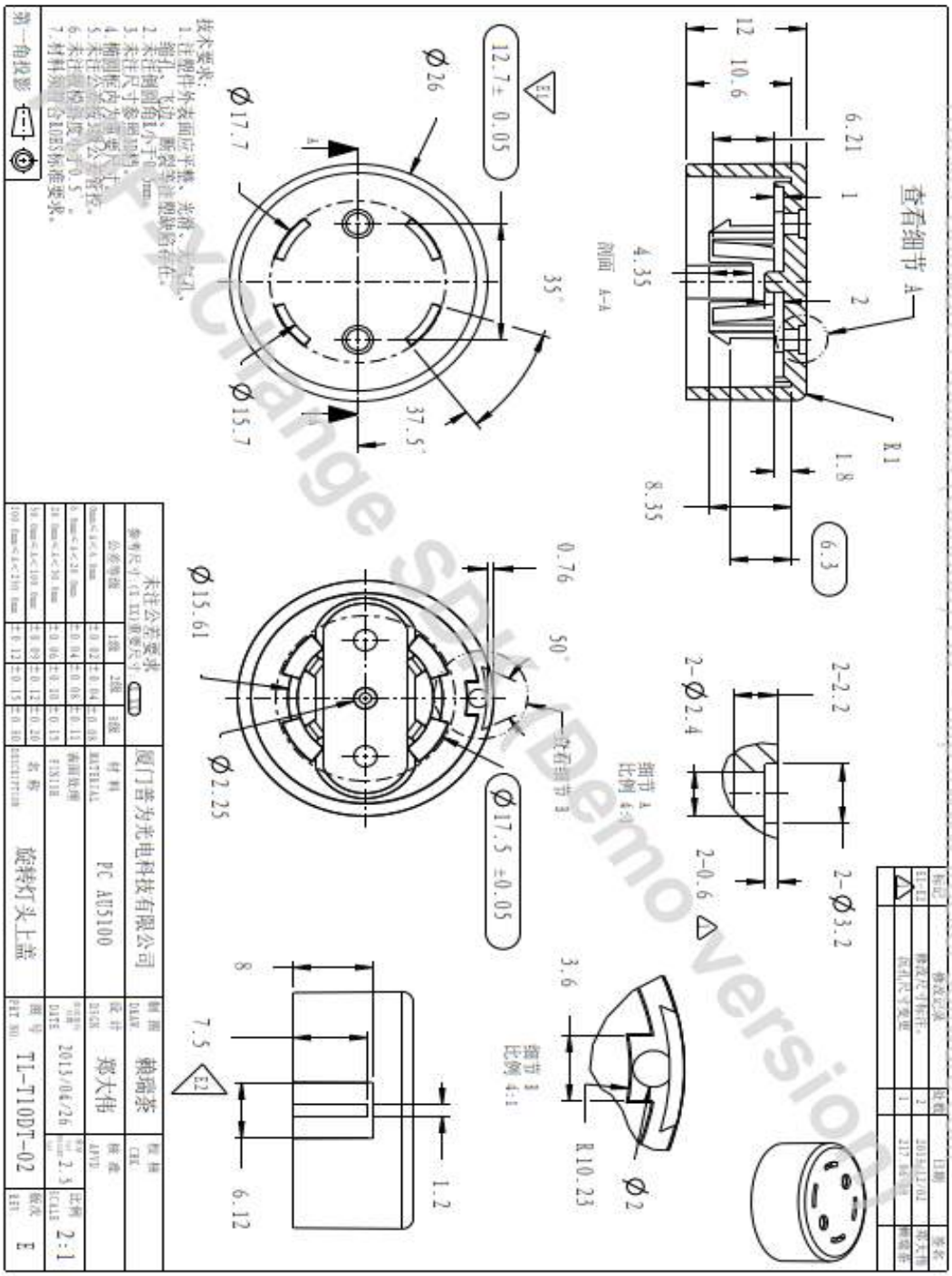
7.0 Illustrations

Illustration 25 - Structural dimension view 1 of R17d connector for all models



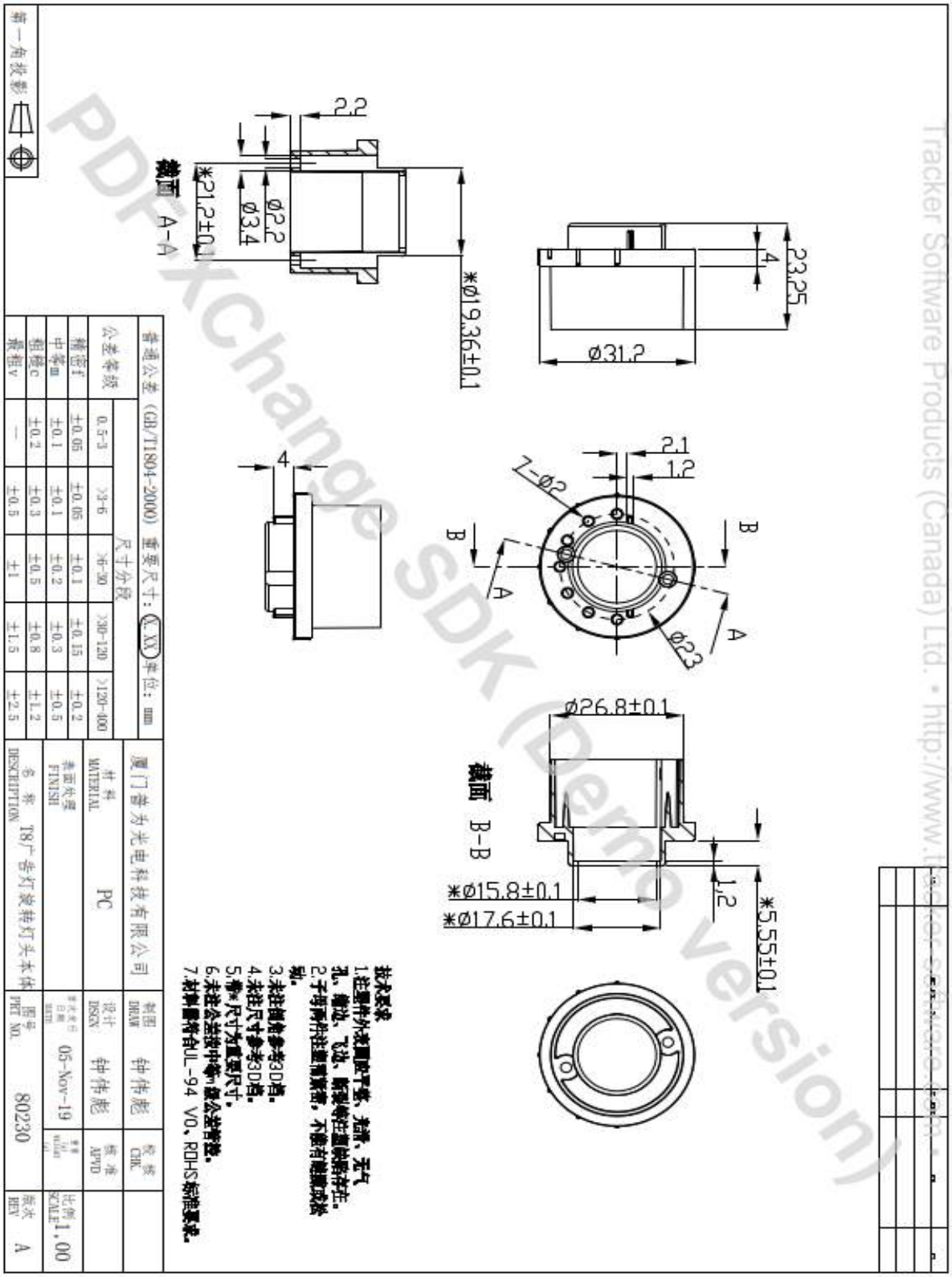
7.0 Illustrations

Illustration 26 - Structural dimension view 2 of R17d connector for all models



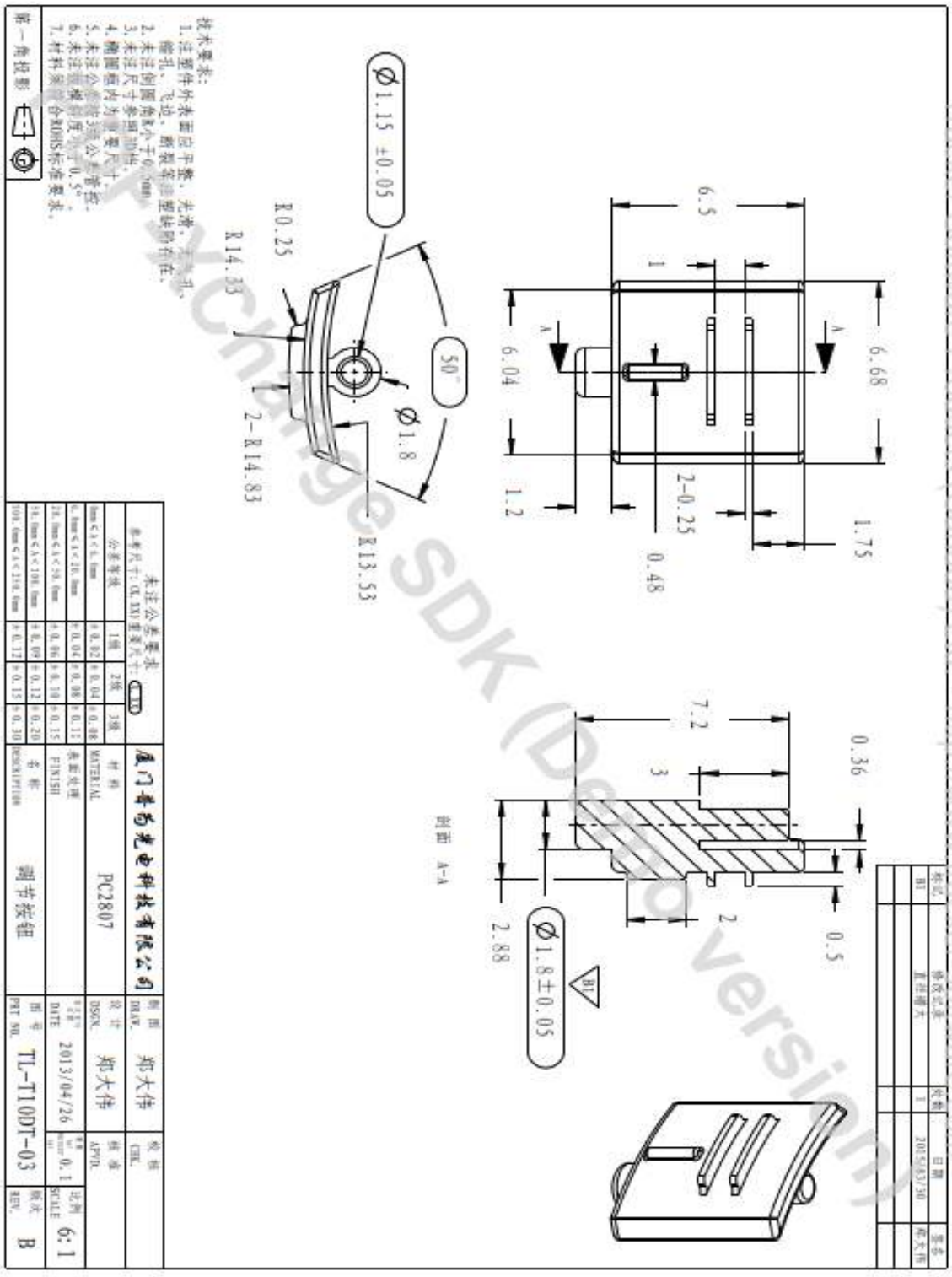
7.0 Illustrations

Illustration 27 - Structural dimension view 3 of R17d connector for all models



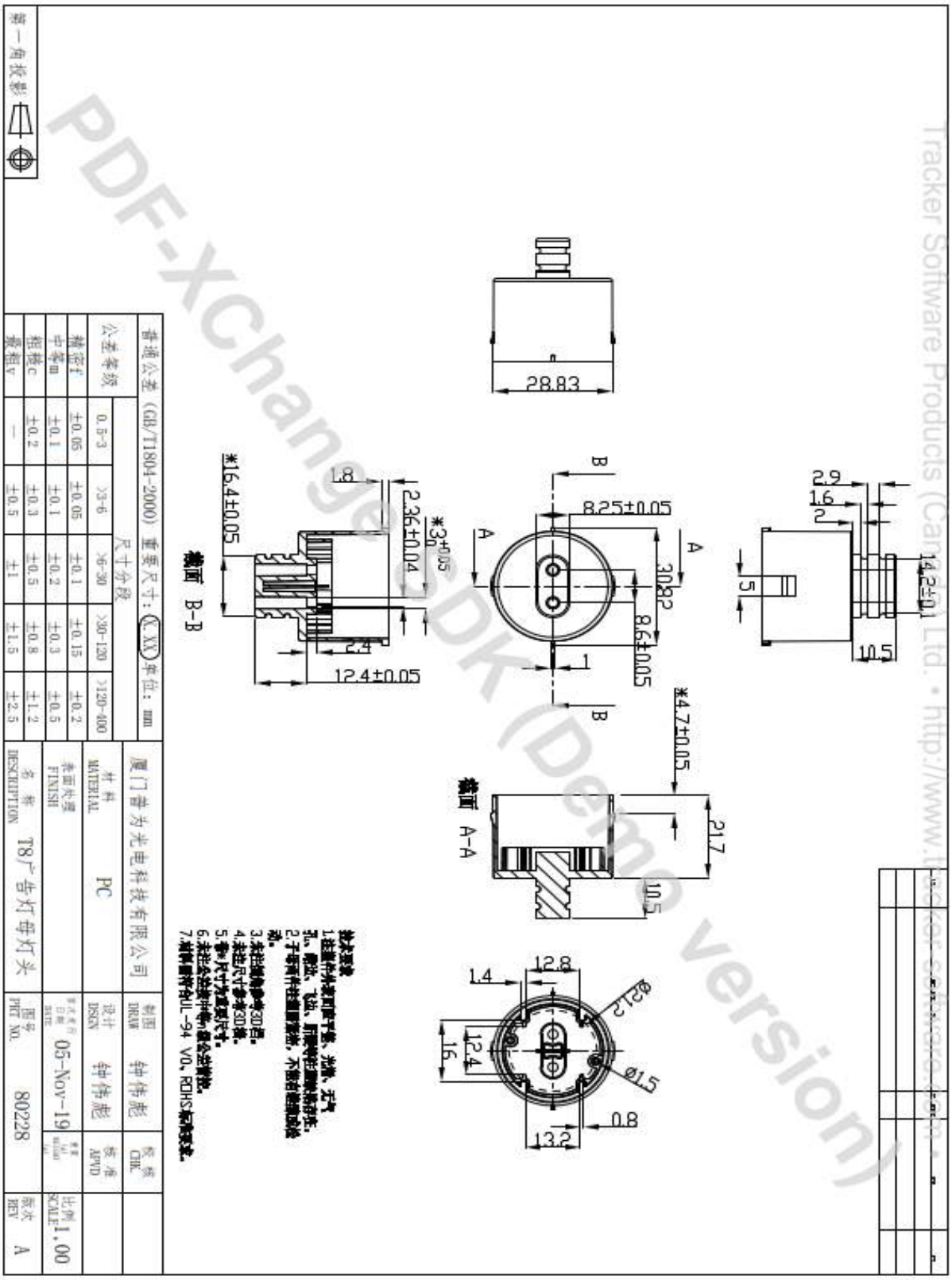
7.0 Illustrations

Illustration 28 - Structural dimension view 4 of R17d connector for all models



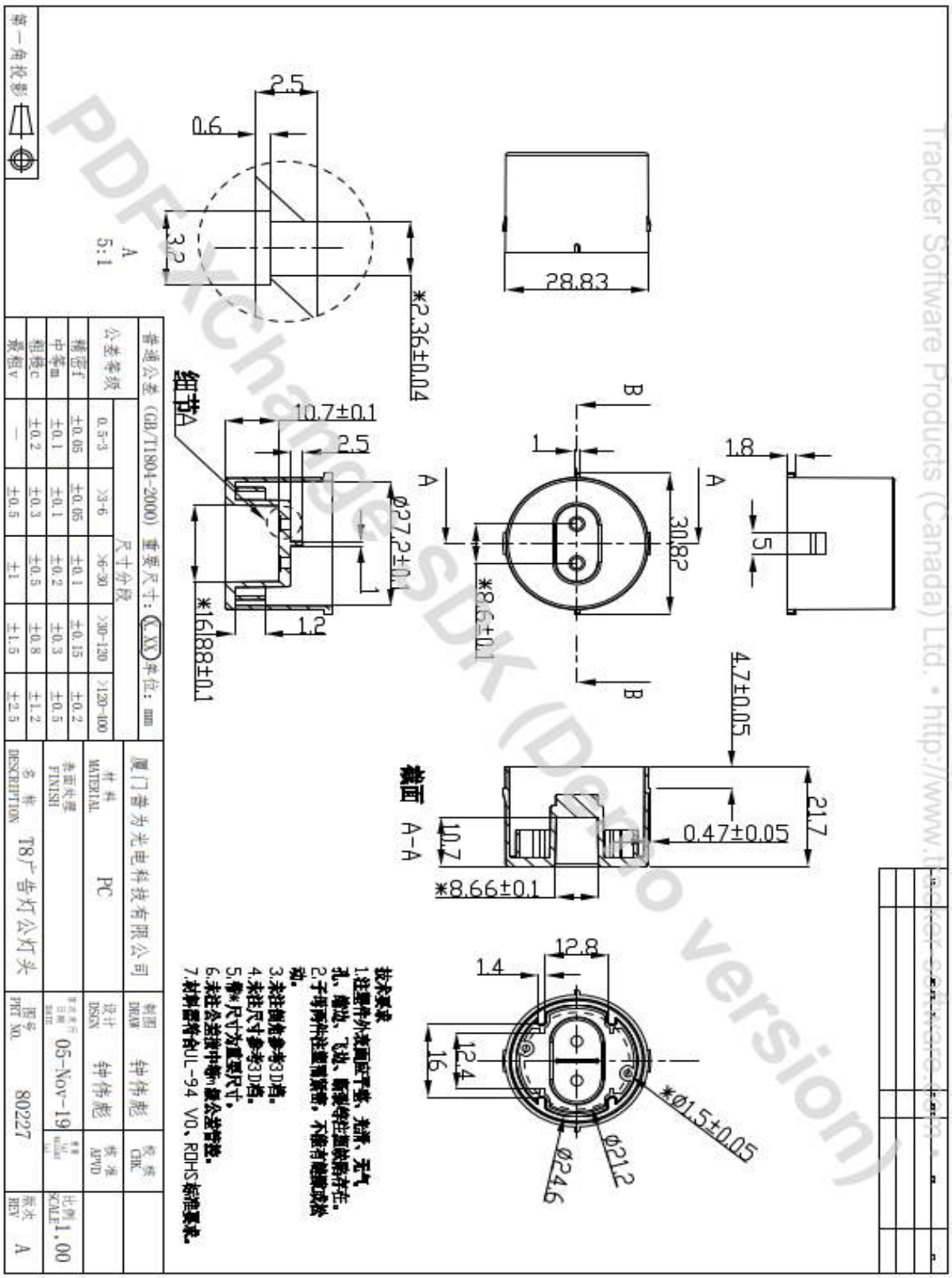
7.0 Illustrations

Illustration 29 - Structural dimension view 5 of R17d connector(ECR17d1) for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K



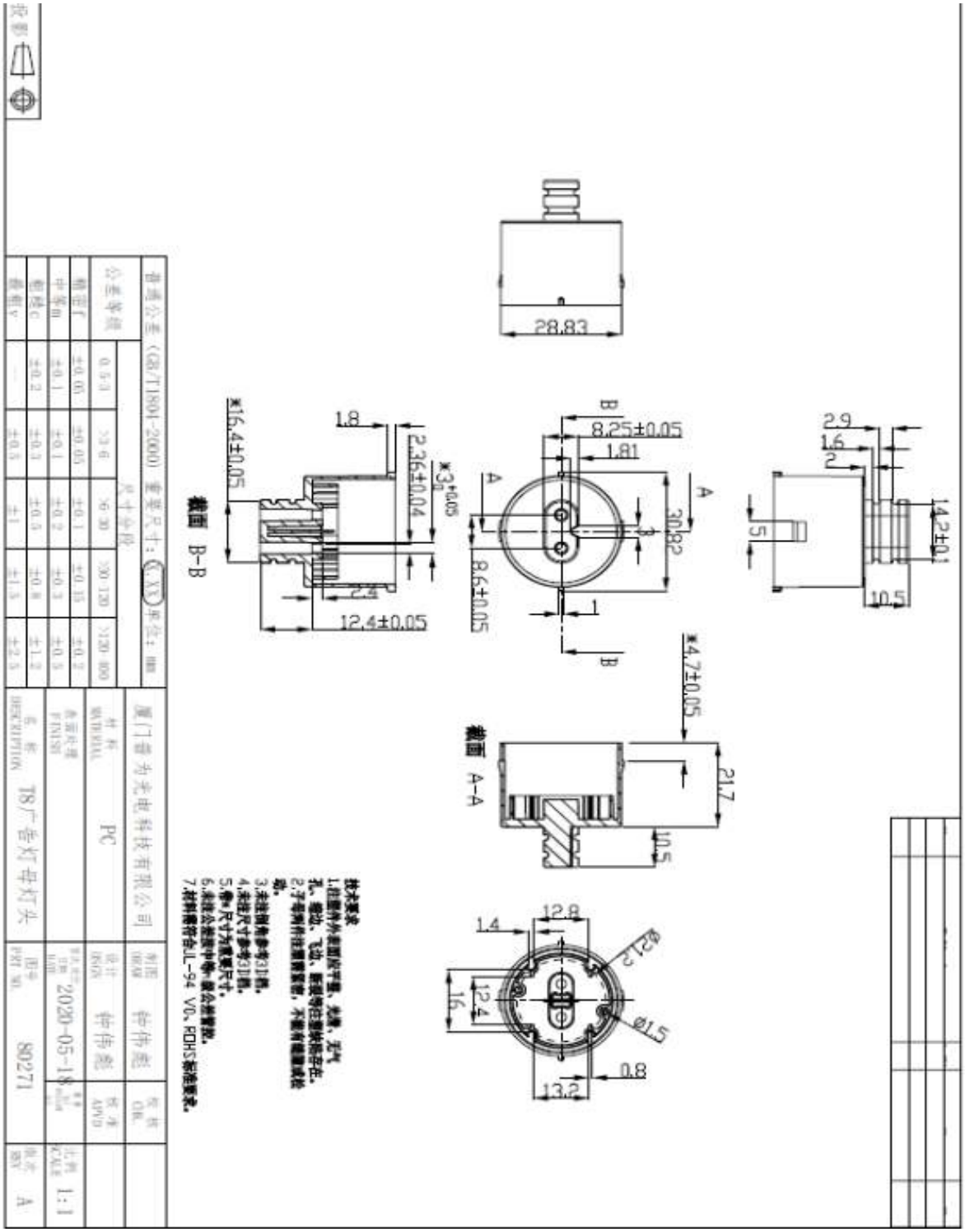
7.0 Illustrations

Illustration 30 - Structural dimension view 6 of R17d connector(ECR17d2) for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K



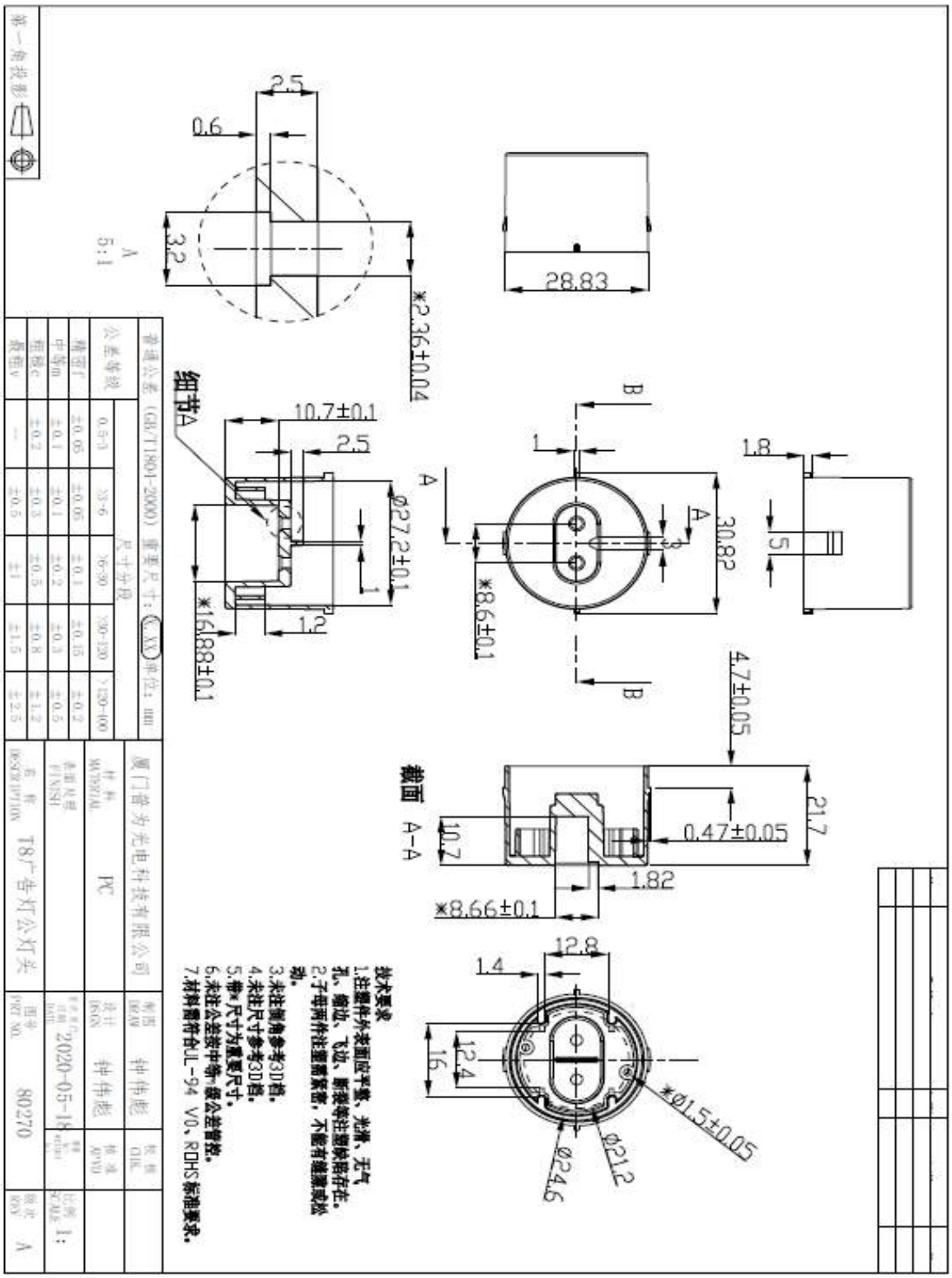
7.0 Illustrations

Illustration 31 - Structural dimension view 7 of R17d connector(ECR17d3) for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K



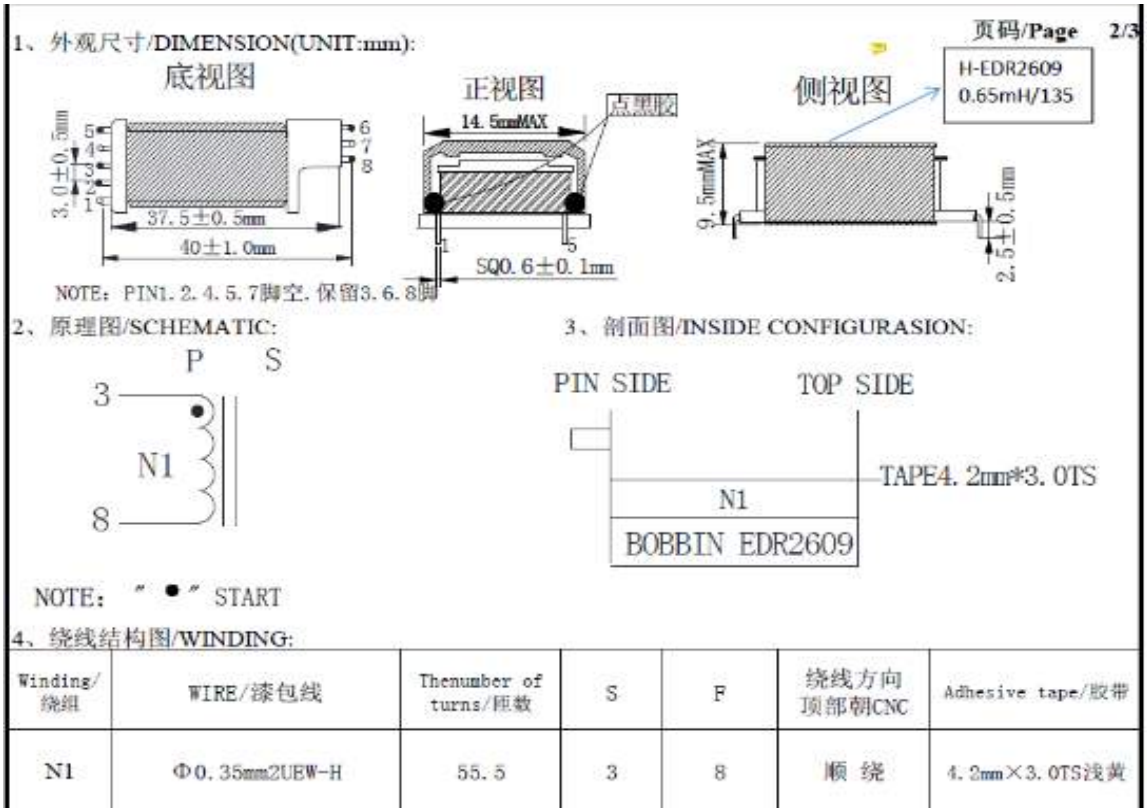
7.0 Illustrations

Illustration 32 - Structural dimension view 8 of R17d connector(ECR17d4) for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K



7.0 Illustrations

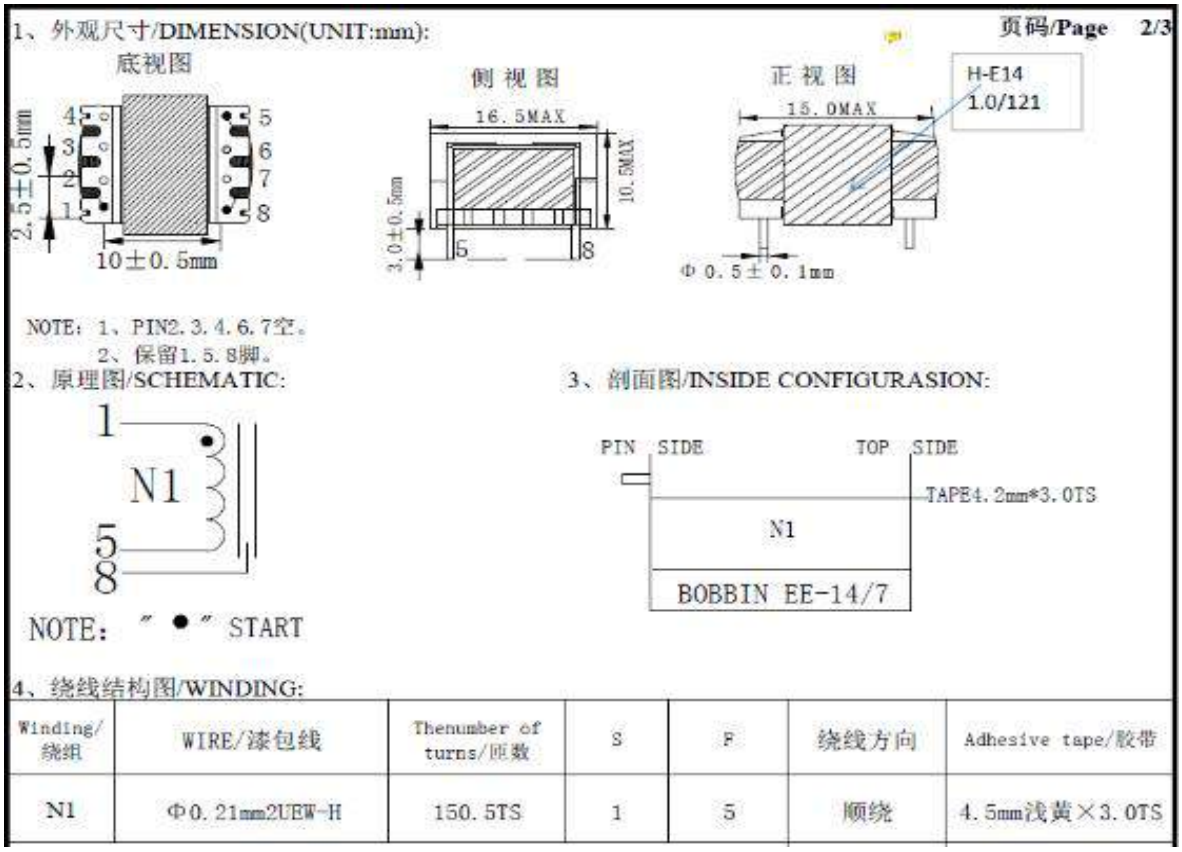
Illustration 33 - Inductor(T1)Spec. for driver model XPC-21W



Winding/绕组	WIRE/漆包线	Thenumber of turns/匝数	S	F	绕线方向 顶部朝CNC	Adhesive tape/胶带
N1	Φ0.35mm2UEW-H	55.5	3	8	顺 绕	4.2mm×3.0TS浅黄

7.0 Illustrations

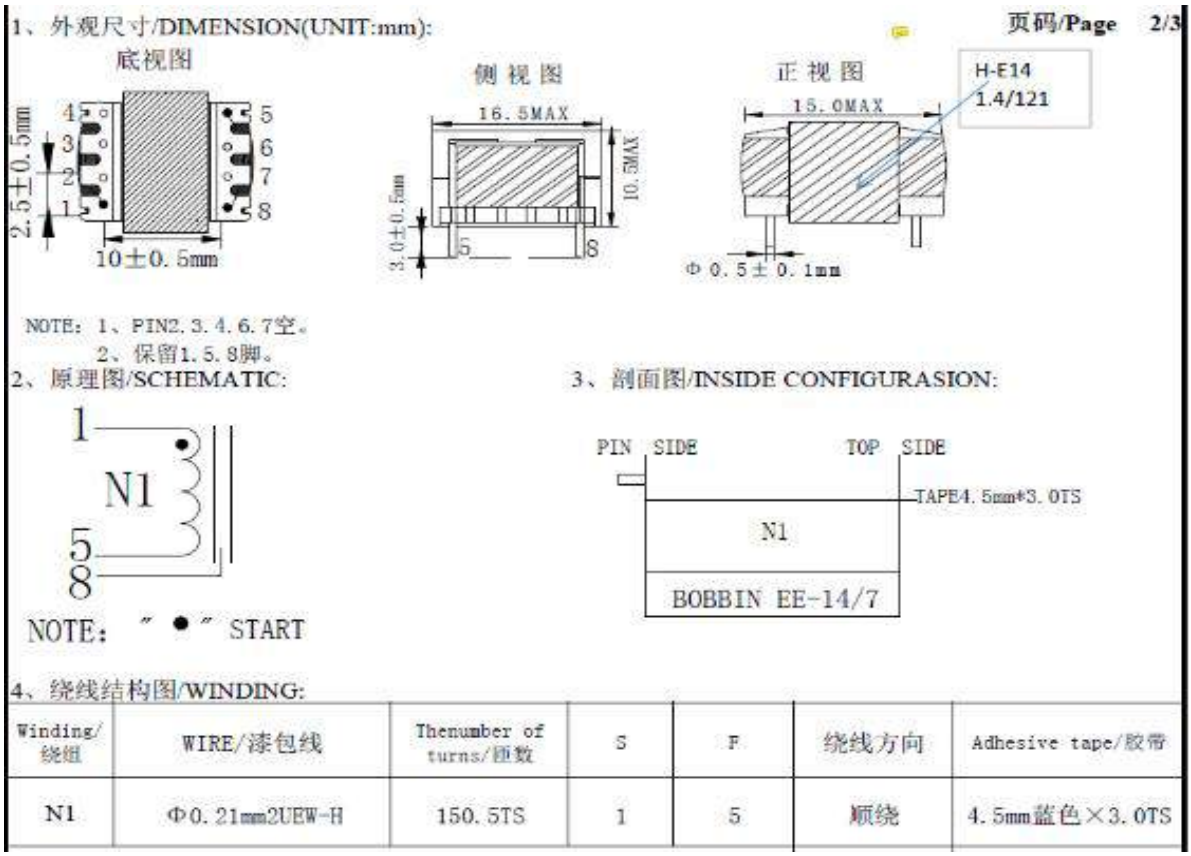
Illustration 34 - Inductor(T1)Spec. for driver model XPC-15W



Winding/绕组	WIRE/漆包线	Thenumber of turns/匝数	S	F	绕线方向	Adhesive tape/胶带
N1	Φ0.21mm2UEW-H	150.5TS	1	5	顺绕	4.5mm浅黄×3.0TS

7.0 Illustrations

Illustration 35 - Inductor(T1)Spec. for driver model XPC-10.5W, XPC-9W



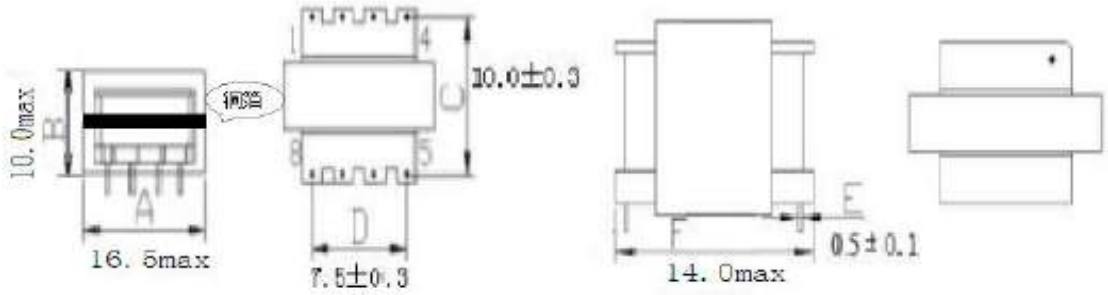
Winding/绕组	WIRE/漆包线	Thenumber of turns/匝数	S	F	绕线方向	Adhesive tape/胶带
N1	Φ0.21mm2UEW-H	150.5TS	1	5	顺绕	4.5mm蓝色×3.0TS

7.0 Illustrations

Illustration 36 - Inductor(T1)Spec. for driver model PVST830-7.5W-180-**K, PVST812-6W-360-**K

客户名称	厦门普为光电科技有限公司	客户型号	EE14/7 立式 4+4	公司型号	电感 EE14/7 2.2mH±7%

1.外型尺寸：



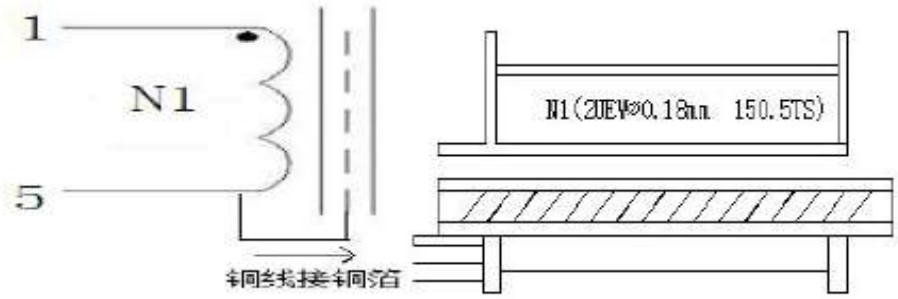
留脚：1.5.8

备注：

1、5 脚留 15mm 地线接铜箔，成品后沿线包方向用 3mm 自粘铜箔包 1.1T, 首尾焊接于 4-5 脚侧，再用 4.0mm 胶带包 2T。

2、产品印字：YR EE14/7-2.2mH(118)

1. 原理图/结构图



3.绕线结构

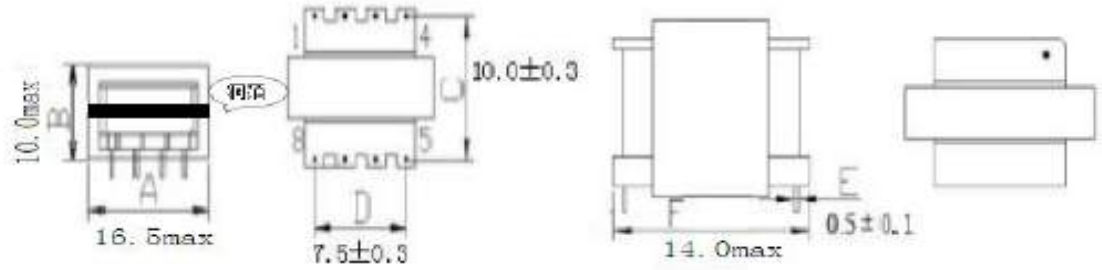
Winding / 绕组	WIRE/ 漆包线	Thenumber of turns/ 匝数	起线	收线	绕线方向	Adhesive tape/胶带
N1	Φ0.18mm 2UEW	150.5T	1	5	逆绕	4.3mm 浅黄×2.0TS

7.0 Illustrations

Illustration 37 - Inductor(T1)Spec. for driver model PVST818-4.5W-180-**K, PVST812-3W-180-**K

客户名称	厦门普为光电科技有限公司	客户型号	EE14/7 立式 4+4	公司型号	电感 EE14/7 4.5mH±7%

1.外型尺寸：



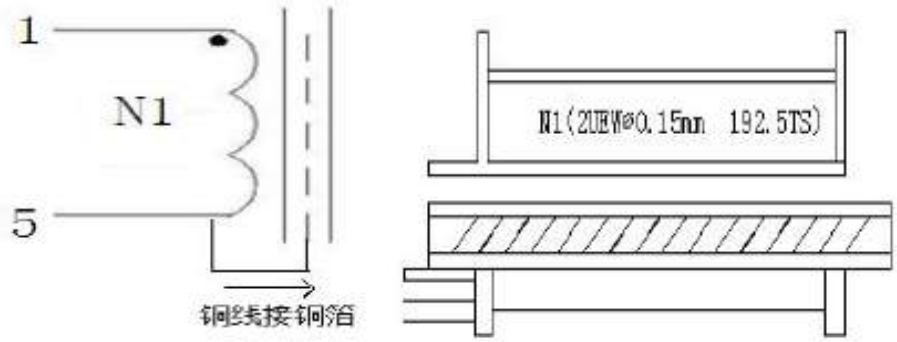
留脚：1.5.8

备注：

1、 5 脚留 15mm 地线接铜箔，成品后沿线包方向用 3mm 自粘铜箔包 1.1T，首尾焊接于 4-5 脚侧，再用 4.0mm 胶带包 2T。

2、产品印字：YR EE14/7-4.5mH(118)

1. 原理图/结构图



3.绕线结构

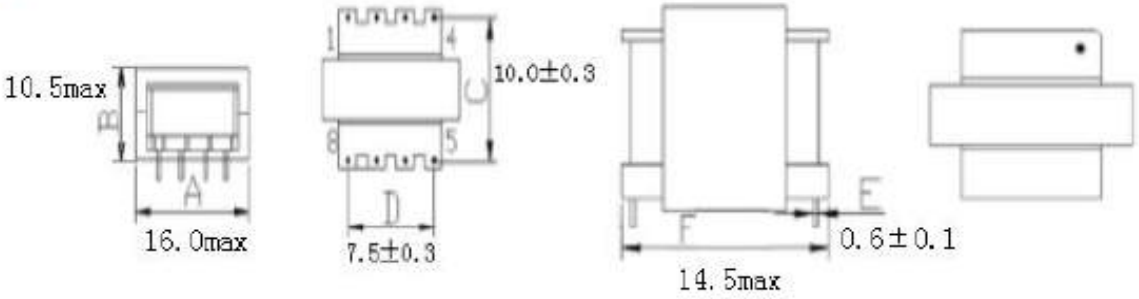
Winding / 绕组	WIRE/ 漆包线	Thenumber of turns/ 匝数	起线	收线	绕线方向	Adhesive tape/胶带
N1	Φ0.15mm 2UEW	192.5T	1	5	逆绕	4.3mm 浅黄×2.0TS

7.0 Illustrations

Illustration 38 - Inductor(T1)Spec. for driver model PVST818-4.5W-180-**K, PVST812-3W-180-**K

客户名称	厦门普为光电科技有限公司	客户型号	EE14/7 立式 4+4	公司型号	电感 EE14/7 0.55mH±7%

1.外型尺寸：



留脚：2.5.8

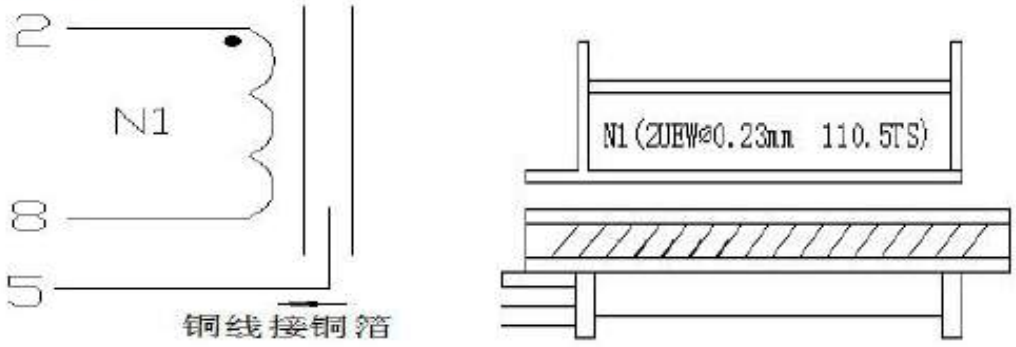
备注：

1、①沿磁芯方向包 4mm 的胶带 2T ②沿磁芯方向包 5mm 的单个焊线自粘铜箔 1.1T，引线焊接至 5 脚 ③沿磁芯方向包 7mm 的胶带 2T 。

2、磁芯采用双气作业

3、产品印字：YR EE14/7-0.55mH(123)

1. 原理图/结构图

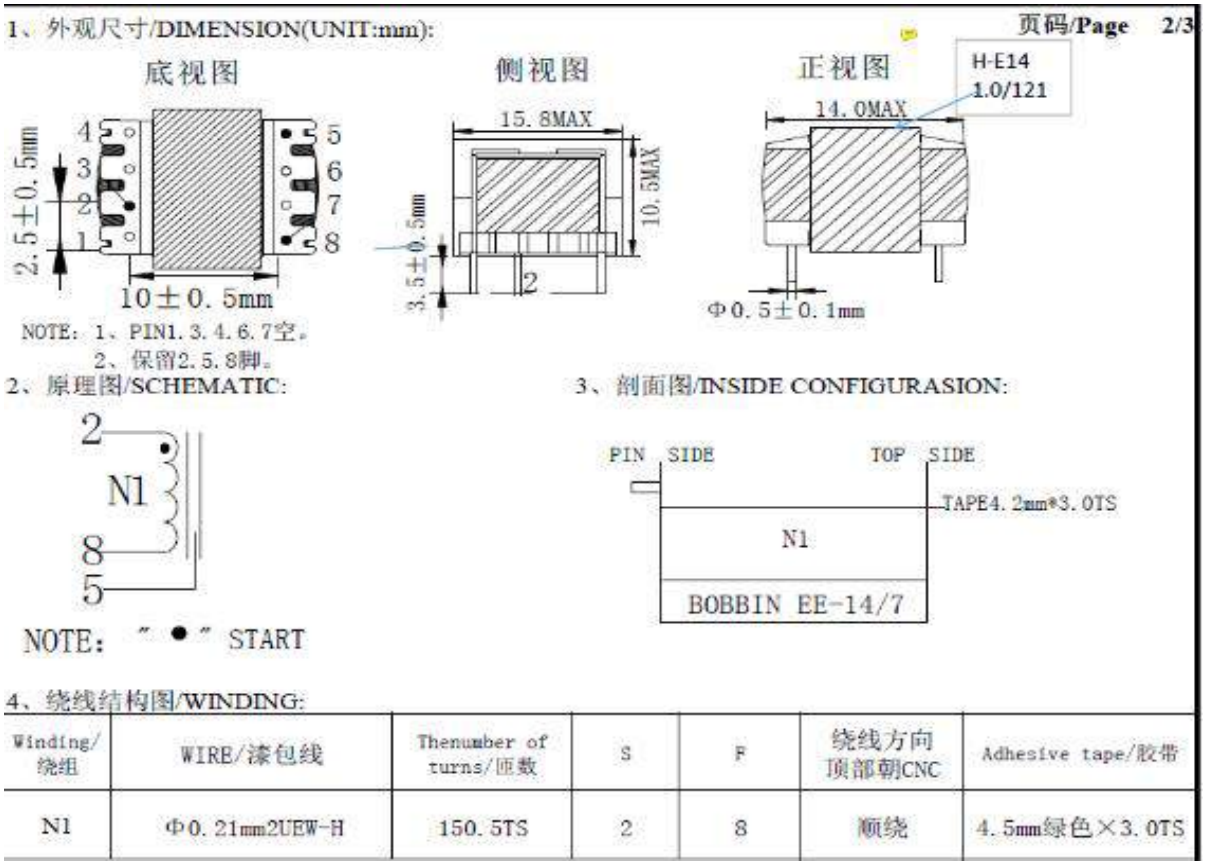


3.绕线结构

Winding / 绕组	WIRE/ 漆包线	Thenumber of turns/ 匝数	起线	收线	绕线方向	Adhesive tape/胶带
N1	Φ0.23mm 2UEW	110.5T	2	8	顺绕	4.3mm 浅黄×2.0TS

7.0 Illustrations

Illustration 39 - Inductor(T1)Spec. for driver model PVST830-15WD-360-**K

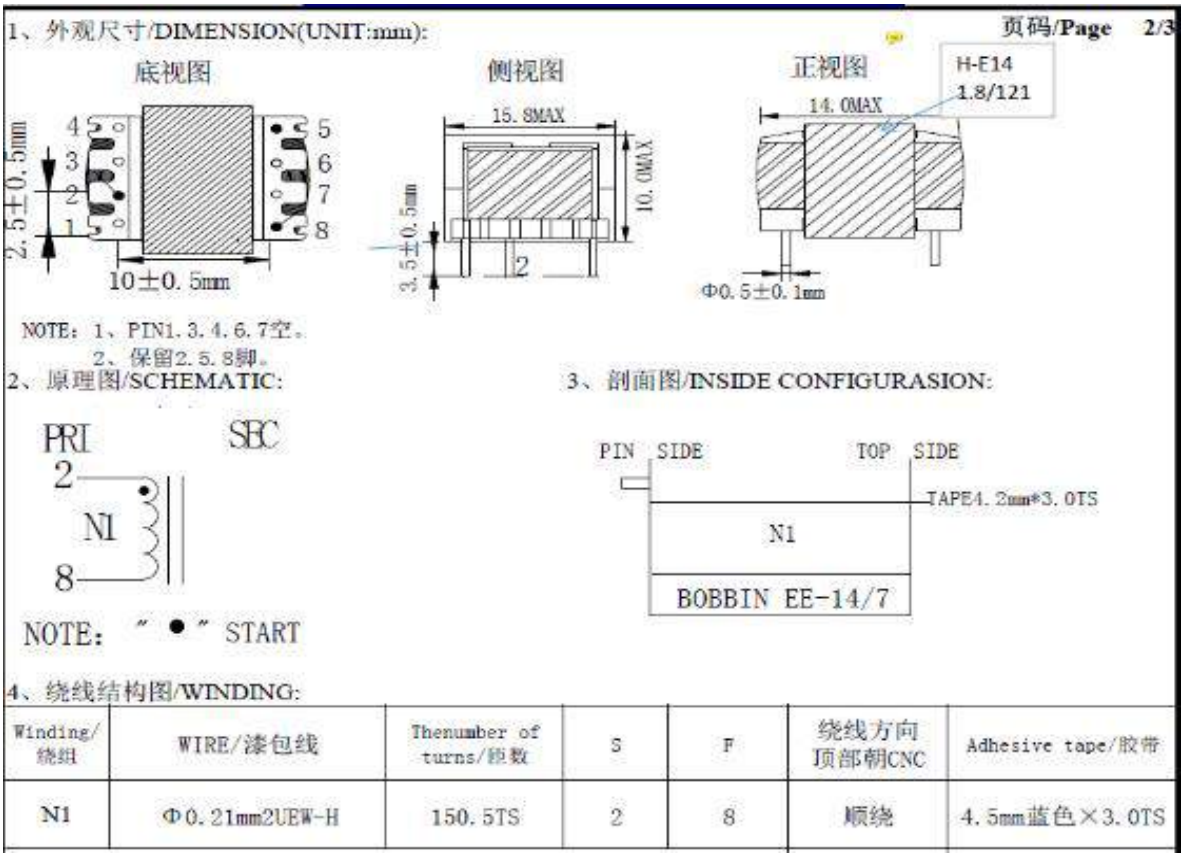


4、绕线结构图/WINDING:

Winding/ 绕组	WIRE/漆包线	Thenumber of turns/匝数	S	F	绕线方向 顶部朝CNC	Adhesive tape/胶带
N1	Φ0.21mm2UEW-H	150.5TS	2	8	顺绕	4.5mm绿色×3.0TS

7.0 Illustrations

Illustration 40 - Inductor(T1)Spec. for driver model XPC-10.5W-1, XPC-9W-1



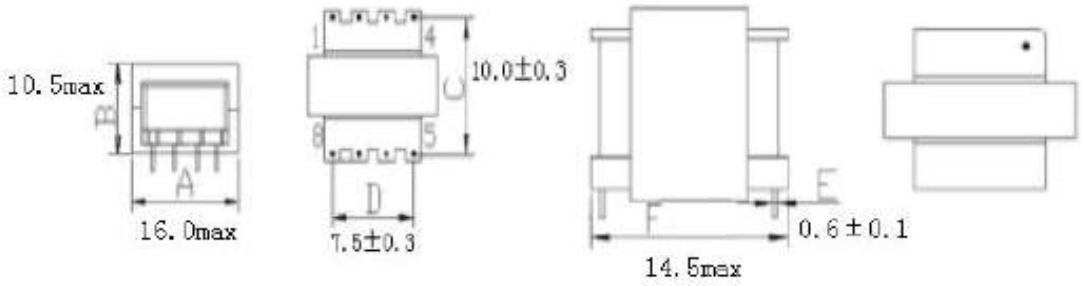
Winding/ 绕组	WIRE/漆包线	Thenumber of turns/匝数	S	F	绕线方向 顶部朝CNC	Adhesive tape/胶带
N1	Φ0.21mm2UEW-H	150.5TS	2	8	顺绕	4.5mm蓝色×3.0TS

7.0 Illustrations

Illustration 41 - Inductor(T1)Spec. for driver model XPC-7.5W-1, PVST812-6WD-360-**K.

客户名称	厦门普为光电科技有限公司	客户型号	EE14/7 立式 4+4	公司型号	电感 EE14/7 2.0mH±7%

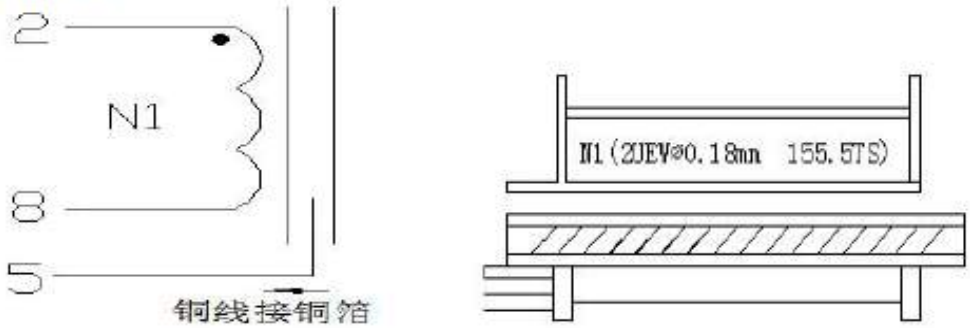
1.外型尺寸：



留脚：2.5.8

备注：
1、①沿磁芯方向包 4mm 的胶带 2T ②沿磁芯方向包 5mm 的单个焊线自粘铜箔 1.1T，引线焊接至 5 脚 ③沿磁芯方向包 7mm 的胶带 2T 。
2、产品印字：YR EE14/7-2.0mH(118)

1. 原理图/结构图



3.绕线结构

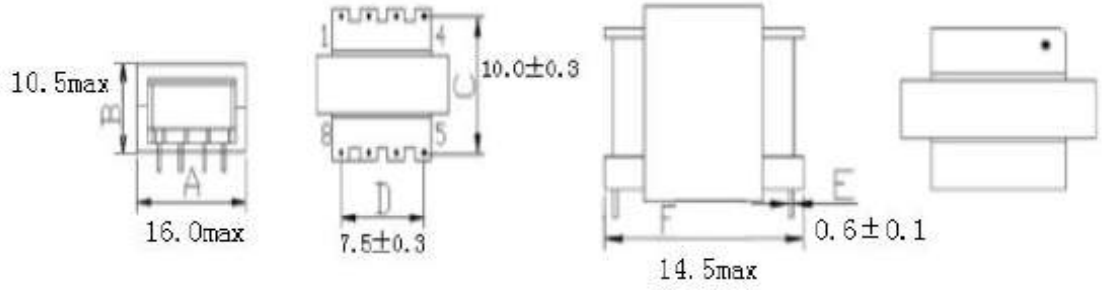
Winding / 绕组	WIRE/ 漆包线	Thenumber of turns/ 匝数	起线	收线	绕线方向	Adhesive tape/胶带
N1	Φ0.18mm 2UEW	155.5T	2	8	顺绕	4.3mm 浅黄×2.0TS

7.0 Illustrations

Illustration 42 - Inductor(T1)Spec. for driver model PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

客户名称	厦门普为光电科技有限公司	客户型号	EE14/7 立 式 4+4	公司型号	电感 EE14/7 4.5mH±7%

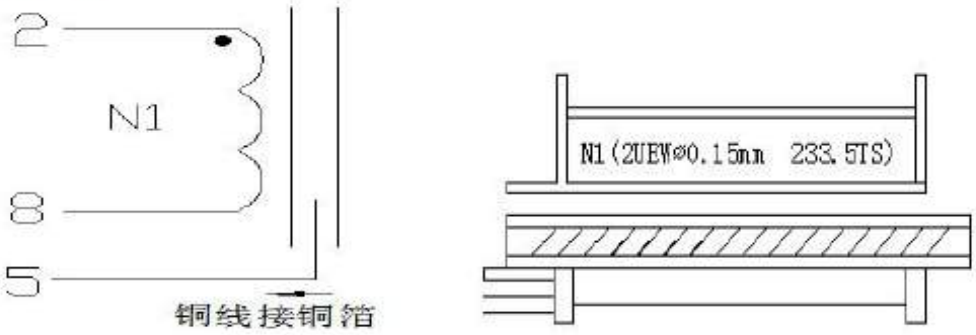
1.外型尺寸：



留脚：2.5.8

备注：
1、①沿磁芯方向包 4mm 的胶带 2T ②沿磁芯方向包 5mm 的单个焊线自粘铜箔 1.1T，引线焊接至 5 脚 ③沿磁芯方向包 7mm 的胶带 2T 。
2、产品印字：YR EE14/7-4.5mH(115)

1. 原理图/结构图



3.绕线结构

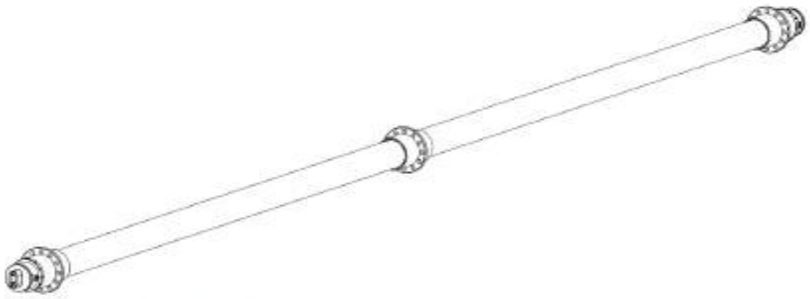
Winding / 绕组	WIRE/ 漆包线	Thenumber of turns/ 匝数	起线	收线	绕线方向	Adhesive tape/胶带
N1	Φ0.15mm 2UEW	233.5T	2	8	顺绕	4.3mm 浅黄×2.0TS

7.0 Illustrations

Illustration 43 - Instruction for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K

INSTALLATION GUIDE

T8 Sign LED Tube Light



Please keep this Quick Installation Guide for future reference.
Modifications to the product void the Warranty.
Suitable to replace fluorescent lamps as specified on the product label.

MARKINGS/WARNING:

1. INSTALLATION OR ASSEMBLY INSTRUCTIONS
a. Wiring instructions that specify the proper method of connecting the grounding means and maintaining polarity shall be included with the luminaire in a manner that will require the installer to handle the instructions during installation.
b. Specification of mounting hardware shall be included in the instruction sheet.
c. Other warnings that will not lead to misuse.
2. "THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS" & "NE CONVIENT PAS AUX SORTIES DE SECOURS" (L2)
3. "WARNING – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of sign electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician."
4." WARNING – Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign."
5. "WARNING – Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts."
6. "Installer should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit."
7. Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.".
8. "Repair and seal any unused openings in the electrical enclosure. Openings greater than 12.7-mm (1/2-in) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk".
9. "WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit with existing shunted bi-pin lampholders in the host sign. Note: Shunted lampholders are found only in fluorescent signs with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED retrofit kit manufacturer."
10. "This sign has been modified to operate LED lamps. Do not attempt to install or operate * lamps in this sign"

7.0 Illustrations

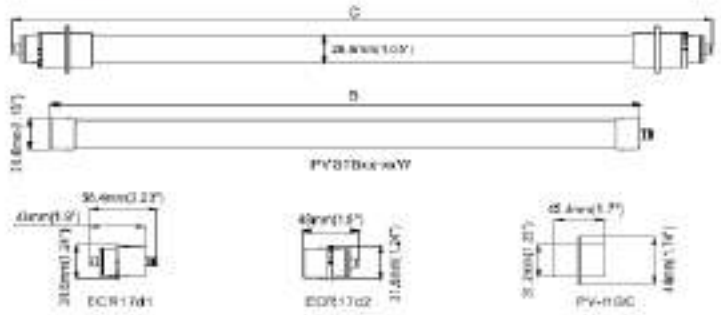
Illustration 44 - Instruction for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K (Cont'd)

11. "WARNING - INSTALL THIS KIT ONLY IN THE SIGN THAT HAS THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE PHOTOGRAPHS AND/ OR DRAWINGS AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE SIGN."
12. "WARNING - TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS."
13. "THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS" & "NE CONVIENT PAS AUX SORTIES DE SECOURS"

The units covered by this report were intended to retrofit surface mount with diffuser for these models, Type IC or non-IC recessed mount listed fluorescent luminaires that use maximum two tubular lamps, the minimum lamp compartment dimensions are tabulated below:

Model	MIN. LAMP COMPARTMENT DIMENSIONS [Length x Width x Height][mm]	MIN. distance between tubes installation lighting sign(mm)	MAX. Interconnected Unit
PVST842-21W-360-**K, PVST842-10.5W-180-**K,	1216×150×65	100	20
PVST830-15W-360-**K, PVST830-10.5W-180-**K,	920 x 150×65	100	20
PVST818-9W-360-**K, PVST818-4.5W-180-**K,	623 x150×65	100	20
PVST812 6W 360 **K, PVST812-3W-180-**K,	462x150×65	100	20

DIMENSION



SPECIFICATION

Model	Code No	Size(B)	Power	Luminous Efficiency	Luminous Flux	Voltage	PF	CRI	Beam angle
PVST812-6W-360	S12-36	12"	6W	125lm/W	750lm	120-277V 50/60Hz	0.9	Ra83	360°
PVST818-9W-360	S18-36	18"	9W	125lm/W	1125lm				
PVST830-15W-360	S30-36	30"	15W	125lm/W	1875lm				
PVST842-21W-360	S42-36	42"	21W	125lm/W	2625lm				
PVST812-3W-180	S12-18	12"	3W	125lm/W	375lm	120-277V 50/60Hz	0.9	Ra83	180°
PVST818-4.5W-180	S18-18	18"	4.5W	125lm/W	566lm				
PVST830-7.5W-180	S30-18	30"	7.5W	125lm/W	940lm				
PVST842-10.5W-180	S42-18	42"	10.5W	125lm/W	1320lm				

7.0 Illustrations

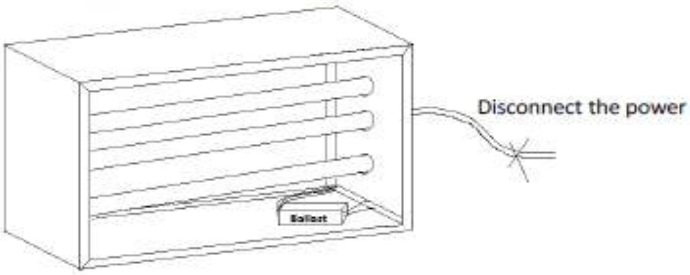
Illustration 45 - Instruction for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K (Cont'd)

COMPONENTS

Component Name	Model	Specification
R17d End Cap1	ECR17d1	R17d,Rotatable
R17d End Cap2	ECR17d2	R17d,Rotatable
Power cord	PV-Pcord	12",Water-proof
Hanging connector	PV-HGC	Clear
Hanging Chain	PV-HC	12",With "S" hook

INSTALLATION GUIDE:

1. DISCONNECT POWER OF LUMINAIRE



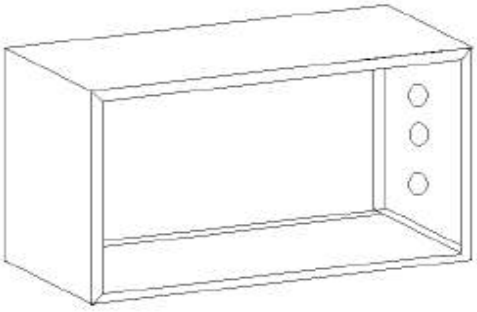
Disconnect power to luminaire or circuit (if possible). Ensure all power is off by using a voltmeter or other method to confirm.

2.REMOVE EXISTING FLUORESCENT TUBE LAMP(S) AND BALLAST.

a. Remove fixture lens, if present.

b. Remove existing fluorescentlamp(s).

c. Expose the sign raceway to access the wiring. Then cut input and output wires from the ballast, and remove the ballast.



3.FIXTURE REWIRING

a. R17d lamp holder installation, please rewiring the fixture according to thebelow diagram.

b.Power cord installation,please rewiring the fixture according to thebelow diagram.

7.0 Illustrations

Illustration 46 - Instruction for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K (Cont'd)

4.SIGN TUBE LIGHT ASSEMBLE

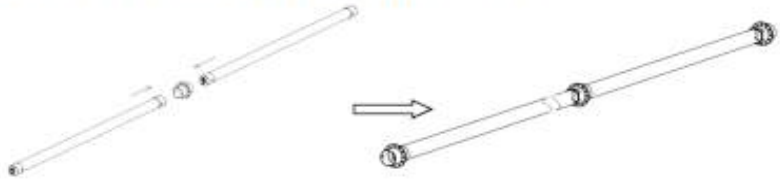
a. Please check the length of the original fluorescent tube,and then select the right components according to the below form.

Target Lamp	Assembly Method	Size (B/C)	Installation
T8 18" R17d	S12+ECR17d	12"/15.62"	R17d or Power cord
T8 24" R17d	S18+ECR17d	18"/21.62"	R17d or Power cord
T8 24" R17d	S18+ECR17d	18"/21.62"	R17d or Power cord
T8 30" R17d	S12+S12+ECR17d	24"/27.62"	R17d or Power cord
T8 36" R17d	S30+ECR17d	30"/33.62"	R17d or Power cord
T8 42" R17d	S18+S18+ECR17d	36"/39.62"	R17d or Power cord
T8 48" R17d	S42+ECR17d	42"/45.62"	R17d or Power cord
T8 60" R17d	S12+S42+ECR17d	54"/57.62"	R17d or Power cord
T8 64" R17d	S18+S42	60"(B)	Power cord
T8 72" R17d	S12+S12+S42+ECR17d	66"/69.62"	R17d or Power cord
T8 84" R17d	S30+S30+S18+ECR17d	78"/81.62"	R17d or Power cord
T8 96" R17d	S30+S30+S30+ECR17d	90"/93.62"	R17d or Power cord
T8 108" R17d	S18+S42+S42+ECR17d	102"/105.62"	R17d or Power cord
T8 117" R17d	S30+S42+S42+ECR17d	114"(B)	Power cord
T8 120" R17d	S30+S42+S42+ECR17d	114"/117.62"	R17d or Power cord

b.LED Sign tube light assemble

If R17d lamp holder installation, please assemble as shown below:

If Power cord installation, please assemble as shown below:



5. INSERT LED SIGN TUBE LIGHTS

5.1R17d lamp holder installation

a. Read label on the lamp to ensure the power end of LED is aligned with powered tubesocket, then insert LED lamp in the normal way by sliding pins into sockets and rotating a quarter turn until LED tube locks in place.

b. Repeat above step for all LED tube lamps.

c.Fix the hanging chain to hanging connector on the splicing part of the lamp, and hang up with chains one to one between connectors, as shown below.

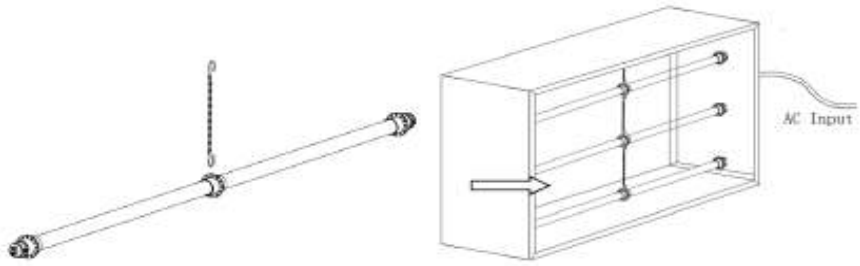
d. LED lamps are now fully installed.

e. Replace troffer lens, if present.

f. After modification completed. Attach the Replacement Marking and cautionary Label to a visible place on the luminaire and keep it visible after installation.

7.0 Illustrations

Illustration 47 - Instruction for models PVST842-21W-360-**K, PVST830-15W-360-**K, PVST818-9W-360-**K, PVST812-6W-360-**K, PVST842-10.5W-180-**K, PVST830-7.5W-180-**K, PVST818-4.5W-180-**K, PVST812-3W-180-**K (Cont'd)



5.2 Power cord installation

a.Fix the hanging chain to hanging connectors on the splicing part and end caps of the lamp, and hang up with chains one to one between connectors, as shown below.

b. Read label on the lamp on the bottom to ensure the power end of LED. Use connector cord to link the other end to the end of above lamp.Make sure the power of each circuit is not higher than 550W.

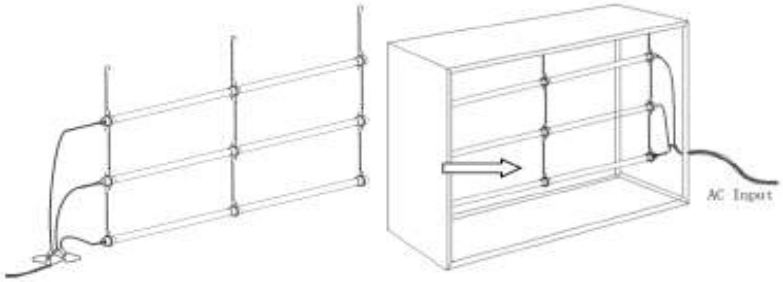
c. Read label on the lamp on the bottom to ensure the power end of LED.Insert the power cord to the powered each end of the bottom lamp.

d. Connect the power cordstogether to AC input wire

e. LED lamps are now fully installed.

f. Replace troffer lens, if present.

g. After modification completed. Attach the Replacement Marking and cautionary Label to a visible place on the luminaire and keep it visible after installation.



6. RESTORE THE POWER OF LUMINAIRE

Restore power to circuit/luminaire and test light. If necessary, adjust position of LED tube,and enjoy your new LED tube light!

7.0 Illustrations

Illustration 48 - Instruction for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K

INSTALLATION GUIDE

T8 Sign LED Tube Light

Please keep this Quick Installation Guide for future reference.
Modifications to the product void the Warranty.
Suitable to replace fluorescent lamps as specified on the product label.

MARKINGS/WARNING:

1. INSTALLATION OR ASSEMBLY INSTRUCTIONS
a. Wiring instructions that specify the proper method of connecting the grounding means and maintaining polarity shall be included with the luminaire in a manner that will require the installer to handle the instructions during installation.
b. Specification of mounting hardware shall be included in the instruction sheet.
c. Other warnings that will not lead to misuse.
2. "THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS" & "NE CONVIENT PAS AUX SORTIES DE SECOURS"
3. "WARNING – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of sign electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician."
4." WARNING – Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign."
5. "WARNING – Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts."
6. "Installer should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit."
7. Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.".
8. "Repair and seal any unused openings in the electrical enclosure. Openings greater than 12.7-mm (1/2-in) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk".
9. "This sign has been modified to operate LED lamps. Do not attempt to install or operate * lamps in this sign"
10. "WARNING - INSTALL THIS KIT ONLY IN THE SIGN THAT HAS THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE PHOTOGRAPHS AND/ OR DRAWINGS AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE SIGN."
11. "WARNING - TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS.".
12. "THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS" & "NE CONVIENT PAS AUX SORTIES DE SECOURS"

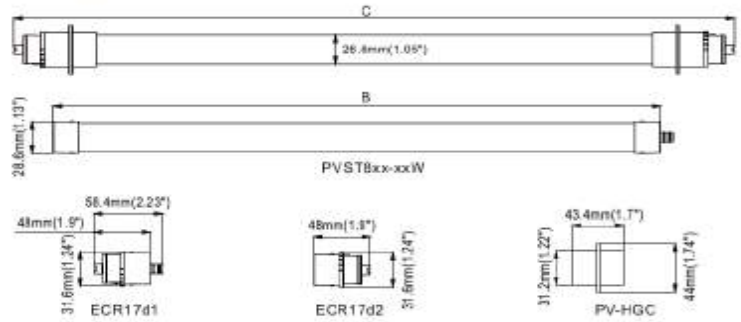
7.0 Illustrations

Illustration 49 - Instruction for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K (Cont'd)

The units covered by this report were intended to retrofit surface mount with diffuser for these models, Type IC or non-IC recessed mount listed fluorescent luminaires that use maximum two tubular lamps, the minimum lamp compartment dimensions are tabulated below:

Model	MIN. LAMP COMPARTMENT DIMENSIONS [Length x Width x Height][mm]	MIN. distance betweentubes installation lightingsign(mm)	MAX. Interconnected Unit
PVST842-21WD-360-**K, PVST842-10.5WD-180-**K	1218×150×65	100	20
PVST830-21WD-360-**K, PVST830-10.5WD-180-**K	920 x 150×65	100	20
PVST818-9WD-360-**K, PVST818-4.5WD-180-**K	623 x150×65	100	20
PVST812-6WD-360-**K, PVST812-3WD-180-**K	462x150×65	100	20

DIMENSION



SPECIFICATION

Model	Code No.	Size(B)	Power	Luminous Efficiency	Luminous Flux	Voltage	PF	CRI	Beam angle
PVST812-6WD-360	S12-361	12"	6W	125lm/W	750lm	120-277V 50/60Hz	0.9	Ra83	360°
PVST818-9WD-360	S18-361	18"	9W	125lm/W	1125lm				
PVST830-15WD-360	S30-361	30"	15W	125lm/W	1875lm				
PVST842-21WD-360	S42-361	42"	21W	125lm/W	2625lm				
PVST812-3WD-180	S12-181	12"	3W	125lm/W	375lm	120-277V 50/60Hz	0.9	Ra83	180°
PVST818-4.5WD-180	S18-181	18"	4.5W	125lm/W	565lm				
PVST830-7.5WD-180	S30-181	30"	7.5W	125lm/W	940lm				
PVST842-10.5WD-180	S42-181	42"	10.5W	125lm/W	1320lm				

COMPONENTS

Component Name	Model	Specification
R17d End Cap3	ECR17d3	R17d,Rotatable
R17d End Cap4	ECR17d4	R17d,Rotatable
Power cord	PV-Pcord	12",Water-proof
Hanging connector	PV-HGC	Clear

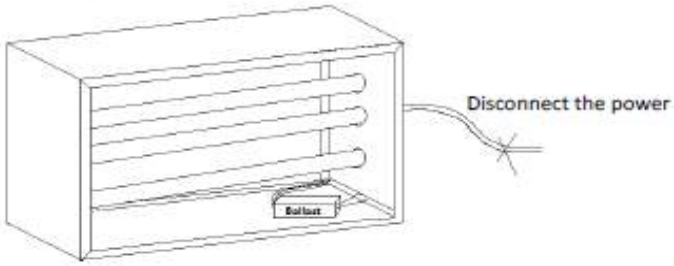
7.0 Illustrations

Illustration 50 - Instruction for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K (Cont'd)

Hanging Chain	PV-HC	12",With "S" hook

INSTALLATION GUIDE:

1. DISCONNECT POWER OF LUMINAIRE



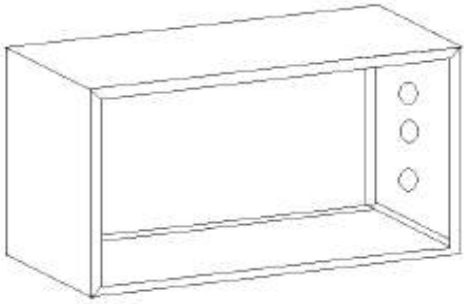
Disconnect power to luminaire or circuit (if possible). Ensure all power is off by using a voltmeter or other method to confirm.

2.REMOVE EXISTING FLUORESCENT TUBE LAMP(S) AND BALLAST.

a. Remove fixture lens, if present.

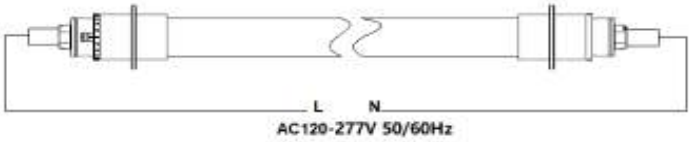
b. Remove existing fluorescentlamp(s).

c. Expose the sign raceway to access the wiring. Then cut input and output wires from the ballast, and remove the ballast.



3.FIXTURE REWIRING

a. R17d lamp holder installation, please rewiring the fixture according to thebelow diagram.



b.Power cord installation,please rewiring the fixture according to thebelow diagram.

7.0 Illustrations

Illustration 51 - Instruction for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K (Cont'd)

4.SIGN TUBE LIGHT ASSEMBLE

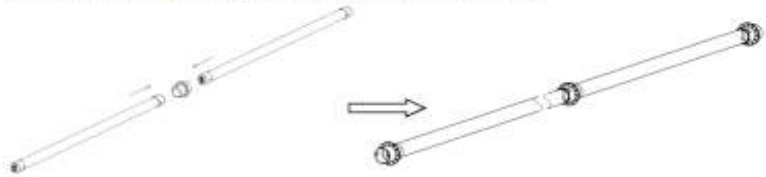
a. Please check the length of the original fluorescent tube,and then select the right components according to the below form.

Target Lamp	Assembly Method	Size (B/C)	Installation
T8 18" R17d	S12+ECR17d	12"/15.82"	R17d or Power cord
T8 24" R17d	S18+ECR17d	18"/21.82"	R17d or Power cord
T8 24" R17d	S18+ECR17d	18"/21.82"	R17d or Power cord
T8 30" R17d	S12+S12+ECR17d	24"/27.82"	R17d or Power cord
T8 36" R17d	S30+ECR17d	30"/33.82"	R17d or Power cord
T8 42" R17d	S18+S18+ECR17d	36"/39.82"	R17d or Power cord
T8 48" R17d	S42+ECR17d	42"/45.82"	R17d or Power cord
T8 60" R17d	S12+S42+ECR17d	54"/57.82"	R17d or Power cord
T8 64" R17d	S18+S42	60"(B)	Power cord
T8 72" R17d	S12+S12+S42+ECR17d	66"/69.82"	R17d or Power cord
T8 84" R17d	S30+S30+S18+ECR17d	78"/81.82"	R17d or Power cord
T8 96" R17d	S30+S30+S30+ECR17d	90"/93.82"	R17d or Power cord
T8 108" R17d	S18+S42+S42+ECR17d	102"/105.82"	R17d or Power cord
T8 117" R17d	S30+S42+S42+ECR17d	114"(B)	Power cord
T8 120" R17d	S30+S42+S42+ECR17d	114"/117.82"	R17d or Power cord

b.LED Sign tube light assemble

If R17d lamp holder installation, please assemble as shown below:

If Power cord installation, please assemble as shown below:



5. INSERT LED SIGN TUBE LIGHTS

5.1R17d lamp holder installation

a. Read label on the lamp to ensure the power end of LED is aligned with powered tubesocket, then insert LED lamp in the normal way by sliding pins into sockets and rotating a quarter turn until LED tube locks in place.

b. Repeat above step for all LED tube lamps.

c.Fix the hanging chain to hanging connector on the splicing part of the lamp, and hang up with chains one to one between connectors, as shown below.

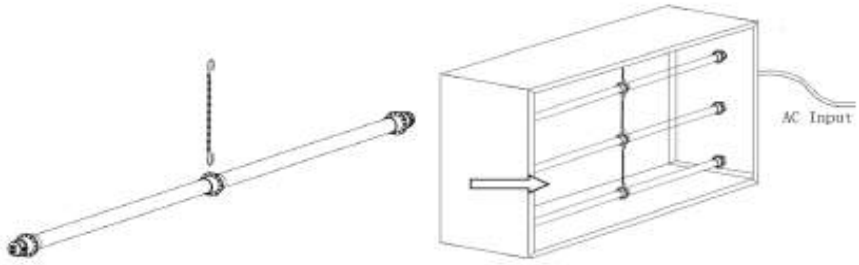
d. LED lamps are now fully installed.

e. Replace troffer lens, if present.

f. After modification completed. Attach the Replacement Marking and cautionary Label to a visible place on the luminaire and keep it visible after installation.

7.0 Illustrations

Illustration 52 - Instruction for models PVST842-21WD-360-**K, PVST830-15WD-360-**K, PVST818-9WD-360-**K, PVST812-6WD-360-**K, PVST842-10.5WD-180-**K, PVST830-7.5WD-180-**K, PVST818-4.5WD-180-**K, PVST812-3WD-180-**K (Cont'd)



5.2 Power cord installation

a.Fix the hanging chain to hanging connectors on the splicing part and end caps of the lamp, and hang up with chains one to one between connectors, as shown below.

b. Read label on the lamp on the bottom to ensure the power end of LED. Use connector cord to link the other end to the end of above lamp.Make sure the power of each circuit is not higher than 550W.

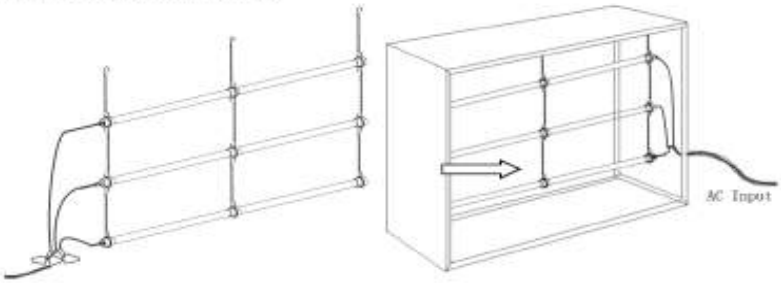
c. Read label on the lamp on the bottom to ensure the power end of LED.Insert the power cord to the powered each end of the bottom lamp.

d. Connect the power cordstogether to AC input wire

e. LED lamps are now fully installed.

f. Replace troffer lens, if present.

g. After modification completed. Attach the Replacement Marking and cautionary Label to a visible place on the luminaire and keep it visible after installation.

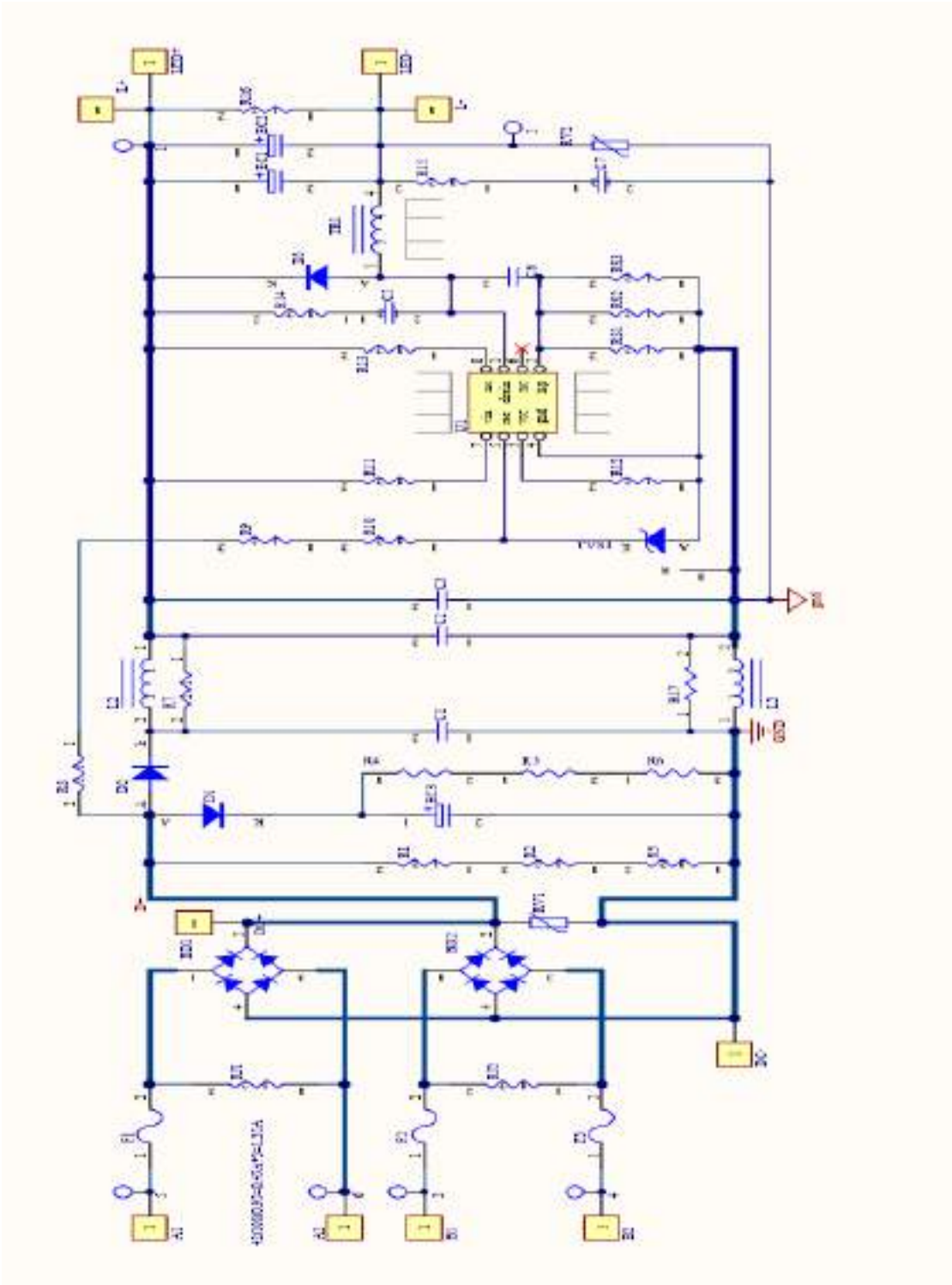


6. RESTORE THE POWER OF LUMINAIRE

Restore power to circuit/luminaire and test light. If necessary, adjust position of LED tube,and enjoy your new LED tube light!

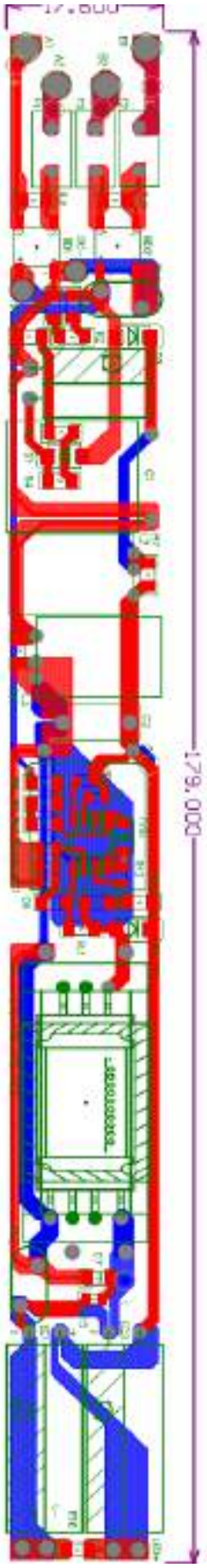
7.0 Illustrations

Illustration 53 - Schematic circuit diagram of LED driver models PVD-T8D21-series.



7.0 Illustrations

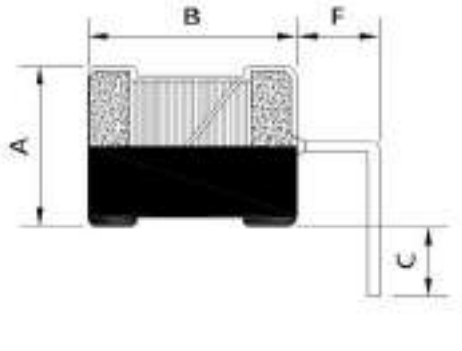
Illustration 54 - Silk-screen and PCB layout of LED driver model PVD-T8D21-series.



7.0 Illustrations

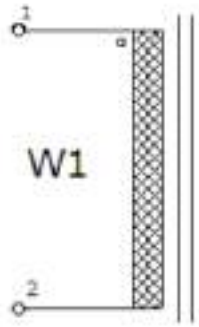
Illustration 55 - Structure of Inductor L2 for driver model PVD-T8D21-series.

I.外形尺寸 CONFIGURATION&DIMENSIONS: UNIT:mm



A: 9.5max
B: 11.5max
C: 6.0±1.0
d: 0.6±0.05
E: 5.0±0.5
F: 2.5±1.0

II.电路图 CURCUIT DIAGRAM



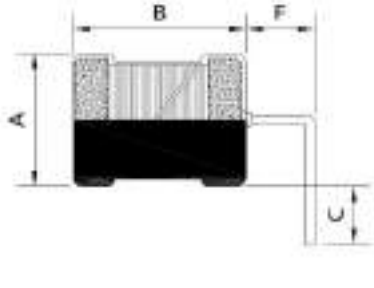
W1 Winding star PIN 1 eng PIN 2
Wire: 2UEW Φ0.16
Tures: 322Ts (REF)

III.电性能 ELECTRICAL CHARACTERISTIC: (TEST CONDITION: 25℃)

NO.	ITEM	STANDARD	Test Conditions	INFO
1	L Inductance	3.5mH ±10%	1KHz/0.3V	HM2792
2	R_{DC} DC Resistance	6.0Ω max.	25℃	TH2516
3	I_{DC} Rating Current		ΔL/L0×100% ≤20%	HM2792 HM2713-2

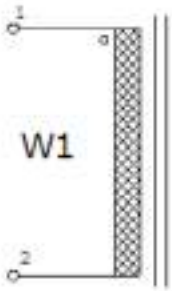
7.0 Illustrations

Illustration 56 - Structure of Inductor L3 for driver model PVD-T8D21-13W-01, PVD-T8D21-18W-01, PVD-T8D21-21W-01,PVD-T8D21-26W-01, PVD-T8D21-37W-01, PVD-T8D21-42W-01, PVD-T8D21-47W-01, PVD-T8D21-50W-01, PVD-T8D21-52W-01



A：9.5max
B：11.5max
C：6.0±1.0
d：0.6±0.05
E：5.0±0.5
F：2.5±1.0

Ⅱ.电路图 CURCUIT DIAGRAM



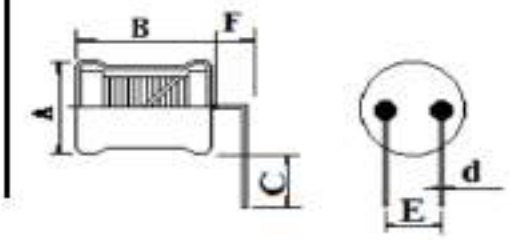
W1 Winding star PIN 1 eng PIN 2
Wire：2UEW Φ0.16
Tures：322Ts（REF）

NO.	ITEM	STANDARD	Test Conditions	INFO
1	L Inductance	3.5mH ±10%	1KHz/0.3V	HM2792
2	R_{DC} DC Resistance	6.0 Ω max	25℃	TH2516
3	I_{RC} Rating Current		△L/L0×100% ≤20%	HM2792 HM2713-2

7.0 Illustrations

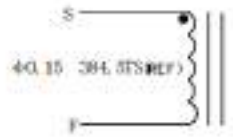
Illustration 56a - Structure of Inductor L3 for driver model PVD-T8D21-10W-01, PVD-T8D21-21W-01, PVD-T8D21-28W-01, PVD-T8D21-31W-01.

outline dimension drawing: (unit: mm)
外观示意图：(单位：mm)



A: Φ9.5MAX
B: 12.0MAX
C: 6.0±0.5
d: Φ0.6±0.1
E: 5.0±0.5
F: 2.5±0.5

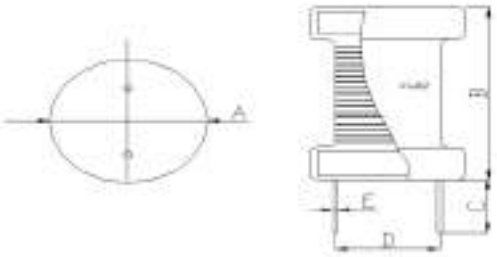
Principium Fig.
原理图



ELECTRICAL CHARACTERISTIC： 电性能			
L	5.0mH±10%	AT 1KHZ 0.3V	VR102
DCR	9.0Ω Max		TH2512

Illustration 56b - Structure of Inductor L3 for driver model PVD-T8D21-7W-01

outline dimension drawing: (unit: mm)
外观示意图：(单位：mm)



A: 7.5MAX
B: 10.0MAX
C: 10±1.0
D: 3.0±0.5
E: Φ0.6±0.1

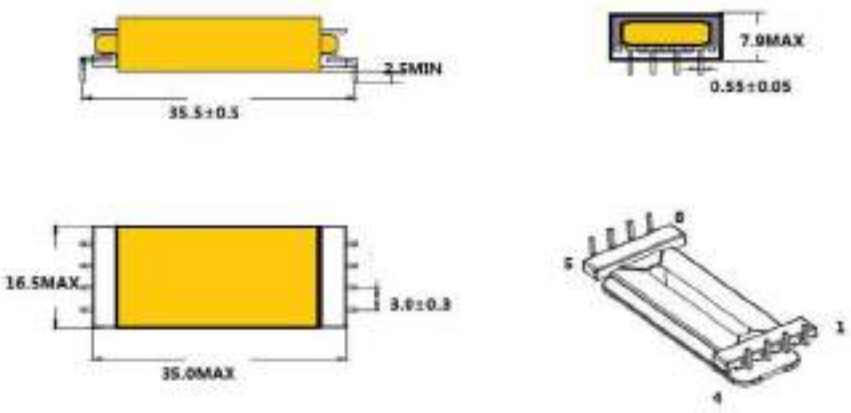
Principium Fig.
原理图

ELECTRICALCHARACTERISTIC： 电性能			
L	6mH±5%	AT 1KHZ 1.0V	TH2810B
DCR	20Ω Max	T=25℃	TH2512

7.0 Illustrations

Illustration 57 - Structure of Inductor TR1 for driver model PVD-T8D21-26W-01,PVD-T8D21-47W-01, PVD-T8D21-50W-01, PVD-T8D21-52W-01.

1. 结构图:

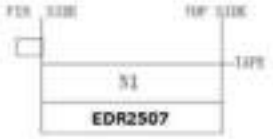


备注：保留 2、4、5、8 脚，其余脚剪掉。
印字内容：EDR2507-0.65MH-60(130)-5(4D)28 WS YYXX。
4 脚引线绝缘芯。

2. 原理图/SCHEMATIC:

NOTE. " ● " START

3. 剖面图/INSIDE CONFIGURASION:



3. 绕组表

序号	绕组	端子	漆包线	圈定圈数	马拉胶带	卷法
1	N1	5（起）→4（收）	Φ0.30mm2UEW-180℃	69TS±1T	内包黄/外包黄	顺卷
包胶带：25.5mm 2TS.（黄色）/3.5mm 2TS（黄色）4脚引线绝缘芯						

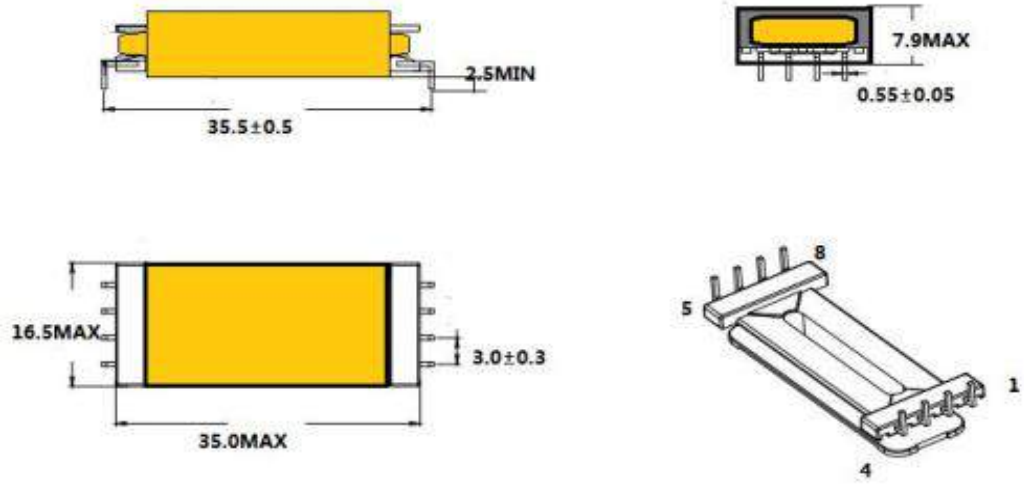
4. 电气特性

序号 NO.	测试项目	端子	参数	测试仪器
1	L值	5—4	0.65mH±7%	TH2775B (100KHz 1V)
2	Q值	5—4	≥20	TH2775B (100KHz 1V)
3	电阻	5—4	≤1.28Ω	电阻测试仪
4	耐电压	5—4	0	ZJ2672C

7.0 Illustrations

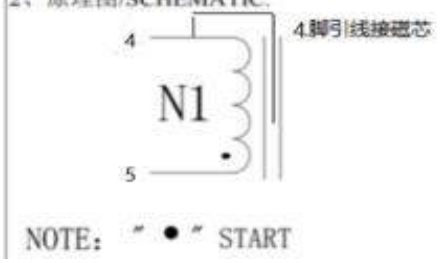
Illustration 57a - Structure of Inductor TR1 for driver model PVD-T8D21-21W-01, PVD-T8D21-42W-01

1. 结构图:



备注：保留 2、4、5、8 脚，其余脚剪掉。
印字内容：EDR2507-0.75MH-60(127)-5(4D)28 WS YYXX。
4 脚引线接磁芯。

2、原理图/SCHEMATIC:



3、剖面图/INSIDE CONFIGURASION:

3. 绕组表

序号	绕组	端子	漆包线	圈定匝数	玛拉胶带	卷法
1	N1	5（起）—4（收）	Φ0.27mm2UEW-180℃	60TS±5T	内包黄/外包黄	顺绕
包胶带：25.5mm 2TS.（黄色）/3.5mm 2TS（黄色）4 脚引线接磁芯						

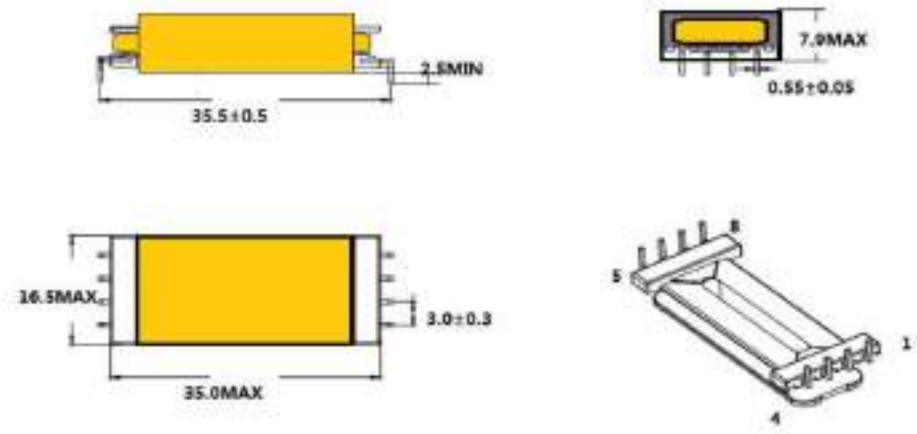
4. 电气特性

序号 NO	测试项目	端子	参数	测试仪器
1	L值	5—4	0.75mH±7%	TH2775B (10KHz 1V)
2	Q值	5—4	≥25	TH2775B (10KHz 1V)
3	电阻	5—4	≤1.45Ω	电阻测试仪
4	耐电压	5—4	0	ZJ1672C

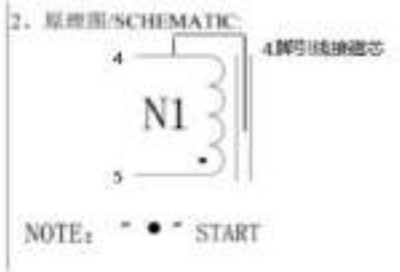
7.0 Illustrations

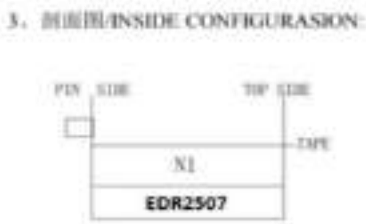
Illustration 57b - Structure of Inductor TR1 for driver model PVD-T8D21-16W-01, PVD-T8D21-18W-01, PVD-T8D21-28W-01, PVD-T8D21-31W-01, PVD-T8D21-37W-01..

1. 结构图:



备注：保留 2、4、5、8 脚，其余脚剪掉。
印字内容：EDR2507-0.85MH-60(127)-5(4D)28 WS YYXX。
4 脚引线接磁芯。





3. 绕组表

序号	绕组	端子	漆包线	[illegible]	[illegible]	[illegible]
1	N1	5（起）—4（收）	Φ0.27mm2UEW-180℃	[illegible]	[illegible]	[illegible]
[illegible]						

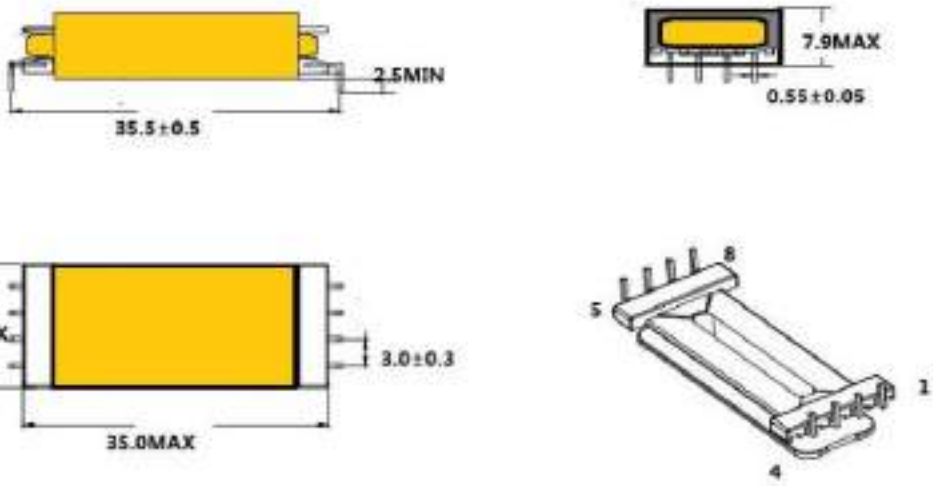
4. 电气特性

序号 NO	测试项目	端子	参数	测试仪器
1	L值	5—4	0.85mH±7%	TH2775B (10KHz 1V)
2	Q值	5—4	[illegible]	TH2775B (10KHz 1V)
3	电阻	5—4	[illegible]	[illegible]
4	耐电压	5—4	0	ZJ2672C

7.0 Illustrations

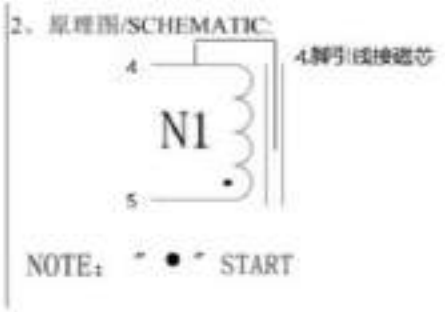
Illustration 57c - Structure of Inductor TR1 for driver model PVD-T8D21-13W-01

1. 结构图:

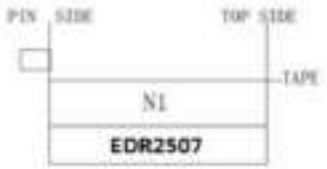


备注：保留 2、4、5、8 脚，其余脚剪掉。
印字内容：EDR2507-1.2MH-60(127)-5(4D)28 WS YYXX。
4 脚引线接磁芯。

2、原理图/SCHEMATIC:



3、剖面图/INSIDE CONFIGURASION:



3. 绕组表

序号	绕组	端子	漆包线	圈数	玛拉胶带	绕法
1	N1	5（起）-4（收）	Φ0.27mm2UEW-180℃	60TS±3T	内包黄/外包黄	顺绕
包胶带：25.5mm 2TS.（黄色）/3.5mm 2TS（黄色）4 脚引线接磁芯						

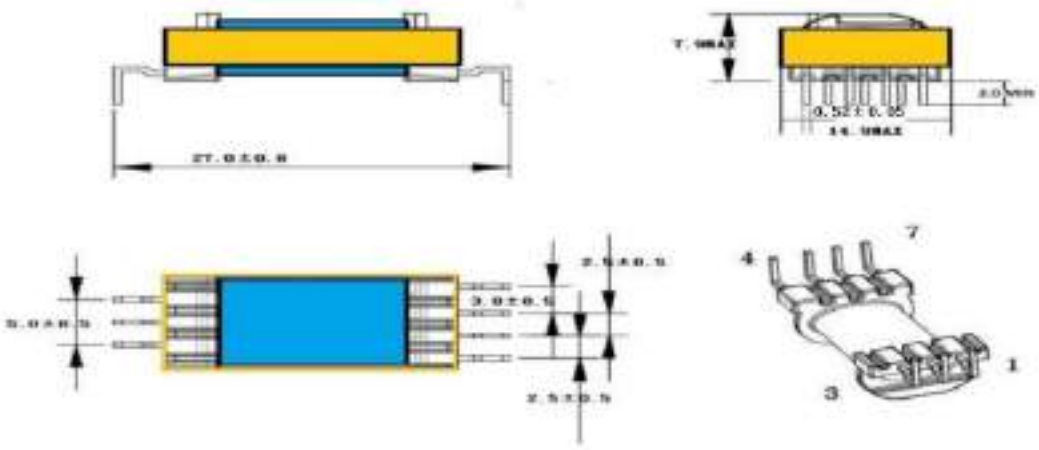
4. 电气特性

序号 NO	测试项目	端子	参数	测试仪器
1	L值	5—4	1.2mH±7%	TH2775B (10KHz 1V)
2	Q值	5—4	≥45	TH2775B (10KHz 1V)
3	电阻	5—4	≤1.45Ω	电阻测试仪
4	耐电压	5—4	0	ZJ2672C

7.0 Illustrations

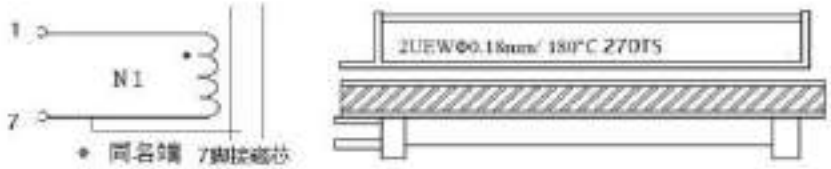
Illustration 57d - Structure of Inductor TR1 for driver model PVD-T8D21-10W-01

1. 结构图:



备注：保留引脚 1,4,7 针。其余拔除。
印字：ES13-1.2-270(118)-1(7D)4 WS YYXX

2. 原理图



3. 绕组表

序号	绕组	端子	漆包线	匝数	玛拉胶带	绕法
1	N1	1（起）–7（收）	2UEWΦ0.18mm/ 180℃	270Ts	内包 12.8mm 宽	密着
磁包胶带：4.0mm 2TS.（黄）7脚引线接磁芯						

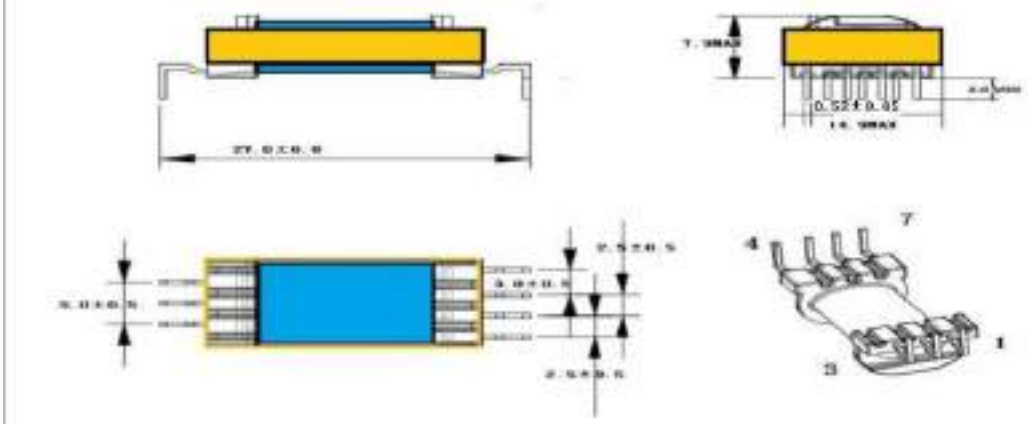
4. 电气特性

序号 NO	测试项目	端子	参数	测试仪器
1	L值	1--7	1.2mH±7%	TH2775B (10KHz 1V)
2	Q值	1--7	≥10	TH2775B (10KHz 1V)
3	耐电压	N---CORE	0	VOLTAGEMETER: CS2672C
4	电阻	1--7	5.1 MAX	电阻测试仪

7.0 Illustrations

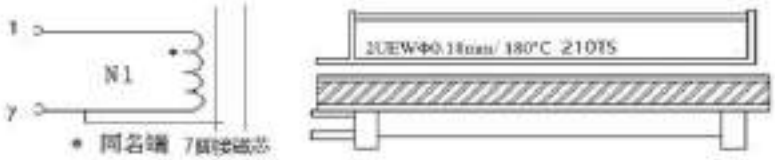
Illustration 57e - Structure of Inductor TR1 for driver model PVD-T8D21-7W-01

1. 结构图:



备注：保留引脚 1,4,7 针，其余拔除。
印字：ES13-1.0-210(118)-1(7D)4 WS YYXX

2. 原理图



3. 绕组表

序号	绕组	端子	漆包线	匝数	玛拉胶带	卷法
1	N1	1（起）--7（收）	2UEW Φ0.18mm/ 180℃	210Ts	内包 12.8mm 盖	密卷
磁包胶带：4.0mm 2TS.（黄）7脚引线接磁芯						

4. 电气特性

序号 NO	测试项目	端子	参数	测试仪器
1	L 值	1--7	1.0mH±7%	TH2775B (10KHz 1V)
2	Q 值	1--7	≥13	TH2775B (10KHz 1V)
3	耐电压	N----CORE	0	VOLTAGEMETER. CS2672C
4	电阻	1--7	3.8 MAX	电阻测试仪

7.0 Illustrations

Illustration 58 - Schematic circuit diagram of LED PCB for model PVT8-18IND21-7W-%%-360-**K

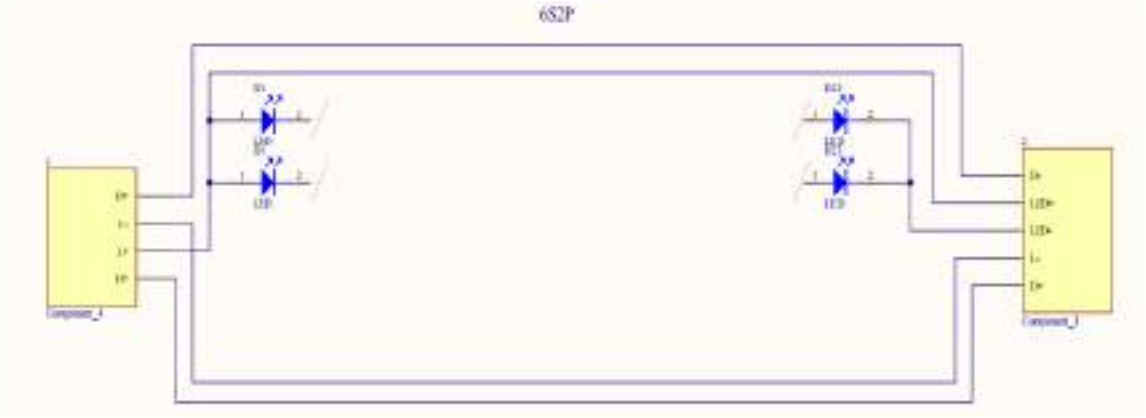


Illustration 59 - Schematic circuit diagram of LED PCB for model PVT8-24ND21-10W-%%-360-**K

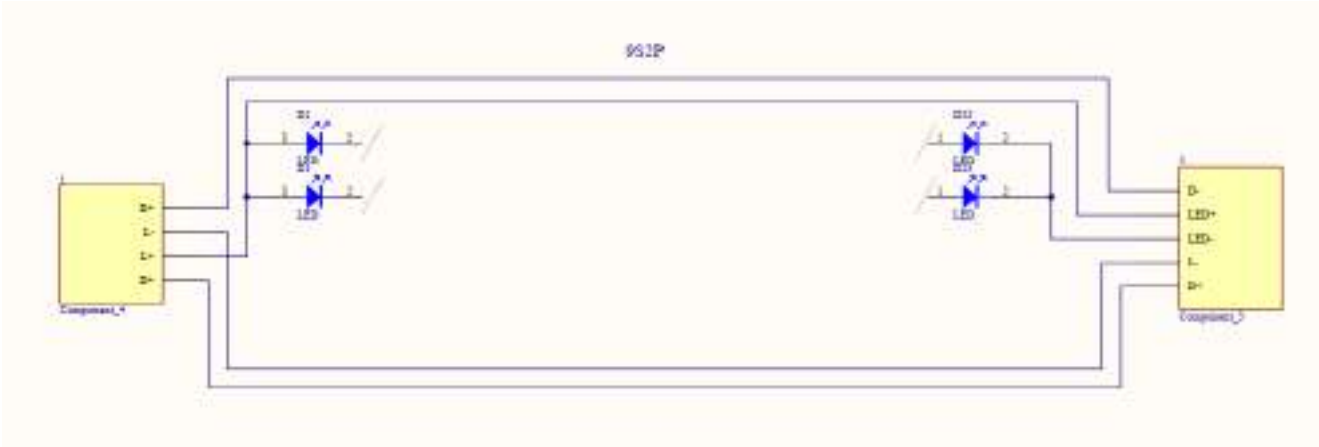
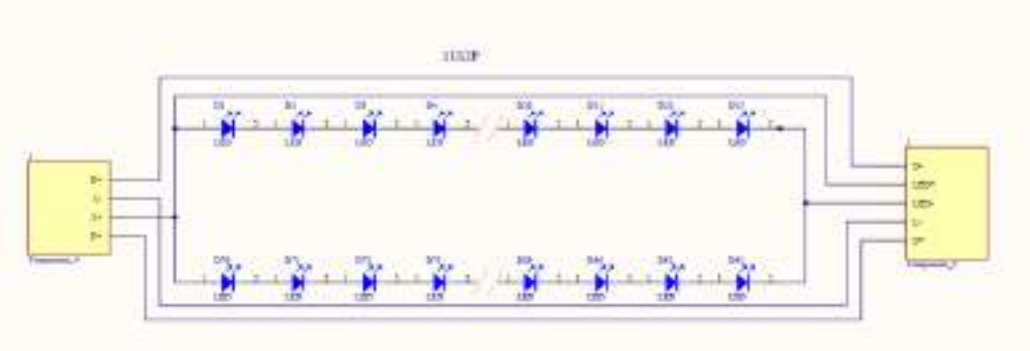


Illustration 60 - Schematic circuit diagram of LED PCB for model PVT8-30IND21-13W-%%-360-**K



7.0 Illustrations

Illustration 61 - Schematic circuit diagram of LED PCB for model PVT8-36ND21-16W-%%-360-**K, PVT8-72IND21-31W-%%-360-**K.

Illustration 62 - Schematic circuit diagram of LED PCB for model PVT8-42IND21-18W-%%-360-**K, PVT8-84IND21-37W-%%-360-**K

Illustration 63 - Schematic circuit diagram of LED PCB for model PVT8-48IND21-21W-%%-360-**K, PVT8-96IND21-42W-%%-360-**K

7.0 Illustrations

Illustration 64 - Schematic circuit diagram of LED PCB for model PVT8-60IND21-26W-%%-360-**K, PVT8-117IND21-50W-%%-360-**K, PVT8-120IND21-52W-%%-360-**K.

Illustration 65 - Schematic circuit diagram of LED PCB for model PVT8-64IND21-28W-%%-360-**K

Illustration 66 - Schematic circuit diagram of LED PCB for model PVT8-108IND21-47W-%%-360-**K

7.0 Illustrations

Illustration 67 - PCB layout of LED PCB for model PVT8-18IND21-7W-%%-360-**K

Illustration 68 - PCB layout of LED PCB for model PVT8-24ND21-10W-%%-360-**KK

Illustration 69 - PCB layout of LED PCB for model PVT8-30IND21-13W-%%-360-**K

Illustration 70 - PCB layout of LED PCB for model PVT8-36ND21-16W-%%-360-**K

Illustration 71 - PCB layout of LED PCB for model PVT8-42IND21-18W-%%-360-**K

Illustration 72 - PCB layout of LED PCB for model PVT8-48IND21-21W-%%-360-**K

Illustration 73 - PCB layout of LED PCB for model PVT8-60IND21-26W-%%-360-**K

7.0 Illustrations

Illustration 74 - PCB layout of LED PCB for model PVT8-64IND21-28W-%%-360-**K

Illustration 75 - PCB layout of LED PCB for model PVT8-72IND21-31W-%%-360-**K

Illustration 76 - PCB layout of LED PCB for model PVT8-84IND21-37W-%%-360-**K

Illustration 77 - PCB layout of LED PCB for model PVT8-96IND21-42W-%%-360-**K

Illustration 78 - PCB layout of LED PCB for model PVT8-108IND21-47W-%%-360-**K

Illustration 79 - PCB layout of LED PCB for model PVT8-117IND21-50W-%%-360-**K

Illustration 80 - PCB layout of LED PCB for model PVT8-120IND21-52W-%%-360-**K

8.0 Test Summary					
Evaluation Period	13-Feb-2020 to 31-Jul-2020			Project No.	HK20010480
Sample Rec. Date	13-Feb-2020	Condition	Prototype	Sample ID.	S110315
Test Location	Intertek Testing Services HK Ltd. (Address: Intertek, 2/F Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong SAR, China)				
Test Procedure	Testing Lab				

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.

The following tests were performed:

Test Description	UL 879A:2012 Ed.1+R:18Dec2013 Clause	CSA C22.2#207:2015 Ed.2 Clause
Input Test	18	--
Normal Temperature Test	19	4.21.1
Dielectric Voltage Withstand Test	20	4.21.3
Installation and Assembly Test	22	--

Test Description	UL 48:2011 Ed.15+R:10Nov2017 Clause
Temperature	5.2
Dielectric	5.3
Mold stress relief distortion test	5.16

Test Description	UL 1993:2017 Ed.5 & CSA C22.2#1993:2017 Ed.3 Clause
Input measurements	SA8.2
Temperature Test	SA8.5
Dielectric voltage-withstand test	SA8.6
Drop test	SA8.8
Mold-stress Relief Conditioning	SA8.9
Tests of Dimmer Circuits - Abnormal test	SA8.12
Humidity conditioning	SA8.13
Risk of electric shock – relamping	SA8.19
Isolation of lamp pins	SA8.20
Misapplication of lamp supply connections	SA8.21
LED lamp and driver abnormal condition tests	SA8.22

Test Description	UL 8750:2015 Ed.2+R:28Apr2020 Clause	CSA C22.2#250.13:2020 Ed.4 Clause
Input test	8.2	9.2
Temperature test	8.3	9.3
Dielectric voltage withstand test	8.6	9.4
Component failure test	8.7.2	9.5.2
Adhesive support test	8.13	9.11
Humidity Exposure	8.14.1	9.12.1

8.0 Test Summary

Test Description	UL 498:2017 Ed.16+R:14Dec 2018 Clause	CSA C22.2#42:2010 Ed.7+U1;U2;U3 Clause
Mold Stress Relief Test	63	--
Dielectric Voltage-Withstand Test	65	8.21
Insulation Resistance Test	67	8.5
Conductor Secureness Test	68	--
Temperature Test	118	8.9
Millivolt Drop Test	184	--
Overload Test	185	8.8
Millivolt Drop Test Repeated	187	--

Test Description	UL 817:2015 Ed.12+R:20Aug 2018 Clause	CSA C22.2 No. 21, Rev. Jan, 2015 Clause
Conductor secureness test	11.1	7.1.1
Security of insulation test	11.2	7.1.2
Strain relief test	11.3	7.1.3
Dielectric voltage-withstand test	11.4	7.1.4
Insulation resistance test	11.5	7.1.5
Jacket retention test	11.10	7.1.10

Evaluation Period	13-Apr-2024 to 4-Jun-2024			Project No.	HK24040804
Sample Rec. Date	11-Apr-2024	Condition	Prototype	Sample ID.	240410108001~ 240410108025, 1001
Test Location	Intertek Testing Services HK Ltd and LCTECH Guangdong Testing Service Co., Ltd (Address: LCTECH Plaza, Science Technology and Enterprise Development Center, Guangyuan Rd., Xiaolan, Zhongshan, Guangdong, 528415, P. R. China)				
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1				

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.

The following tests were performed:

Test Description	UL 879A:2012 Ed.1+R:19May2022 Clause	CSA C22.2#207:2015 Ed.2 Clause	UL 48:2011 Ed.15+R:16Mar2021 Clause
Input Test	18	--	--
Normal Temperature Test	19	4.21.1	5.2
Dielectric Voltage Withstand Test	20	4.21.3	5.3
Installation and Assembly Test	22	--	--
Mold stress relief distortion test	--	--	5.16

8.0 Test Summary

Test Description	UL 1993:2017 Ed.5+R:26Mar2021 & CSA C22.2#1993:2017 Ed.3+U1;U2;U3 Clause
Joint torsion test	8.23
Input measurements	SA8.2
Temperature Test	SA8.5
Dielectric voltage-withstand test	SA8.6
Drop test	SA8.8
Mold-stress Relief Conditioning	SA8.9
Tests of Dimmer Circuits - Normal operation test	SA8.12
Humidity conditioning	SA8.13
Risk of electric shock – relamping	SA8.19
Isolation of lamp pins	SA8.20
Misapplication of lamp supply connections	SA8.21
LED lamp and driver abnormal condition tests	SA8.22
Voltage mismatch test – linear LED lamps	SA8.24

Test Description	UL 8750:2015 Ed.2+R:7Dec2022 Clause	CSA C22.2#250.13:2022 Ed.5 Clause
Input test	8.2	9.2
Temperature test	8.3	9.3
Dielectric voltage withstand test	8.6	9.4
Component failure test	8.7.2	9.5.2
Adhesive support test	8.13	9.11
Humidity Exposure	8.14.1	9.12.1

8.1 Signatures

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0 with regard to the risks of fire and electric shock, otherwise known as classified locations only. The risks associated with the other properties of this product have not been investigated.

Completed by:	Terry Lau	Reviewed by:	Alexis Lee
Title:	Supervisor	Title:	Lead Engineer
Signature:	Digitally signed by Terry Lau	Signature:	Digitally signed by Alexis Lee Location: Intertek Testing Service Limited

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	XIAMEN PVTECH CORPORATION LTD.
Address	No.200 Middle Neian Road, Xiamen, Fujian 361101
Country	China
Product	T8 LED Sign Retrofit Tube

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	

MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
3) a control number issued by Intertek
4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, “Conforms to” shall appear with the standard number along with the word, “Standard” or “Std.” Example: “Conforms to ANSI/UL Std. XX.”

For Canadian standards, the words “Certified to CAN/CSA Standard CXX No. XX.” shall be used, or abbreviated, “Cert. to CAN/CSA Std. CXX No. XX.”

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use. The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services Hong Kong Limited
ETL Component Evaluation Center
Unit H, 3/F., Garment Centre, 576 Castle Peak Road
Kowloon, Hong Kong
Attn: Sample Room
Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

None

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
2-Jul-2021	Andy Tse	6.0	9	Removed "a) ETL listed mark".
				Revised "b) Manufacturer's identification (S16-L2)" to "b) Applicant's name or brand name (S16-L2)".
				Revised "c) Catalogue no., model no., series no., or other similar product identification (S16-L2) " to "c) Model no. (S16-L2) ".
HK21061262 HKG	Eric Chau	7.0	1	Updated Markings.
		9.0	ML1	Added ML1 - "BEYOND SIGNS INC DBA BEYOND LED TECHNOLOGY".
5-Jun-2024	Terry Lau Digitally signed by Terry Lau	1.0	--	Updated standard from UL 879A:2012 Ed.1+R:18Dec2013 to UL 879A:2012 Ed.1+R:19May2022.
			--	Revised Address of Applicant and Manufacturer 1 from "Unit 28, Yangtai Road,Xinyang Industrial Zone,Haicang District, Xiamen, Fujian" to "No.200 Middle Neian Road, XIAMEN Fujian 361101".
HK24040804 HKG	Alexis Lee Digitally signed by Alexis Lee Location: Intertek Testing Service Limited		--	Added contact of Applicant and Manufacturer "Kieng Wang ".
			--	Added phone# of Applicant and Manufacturer "+86-0592-2658882-653"
			--	Added Email of Applicant and Manufacturer "rd59@pvtech.com.cn".
			--	Add manufacturer 2 - “PVTECH LIGHTING(VIETNAM) CO., LTD".
		2.0	--	Updated Description they are for factory installation in approved sign
			--	Added models: PVT8-18IND21-7W-, PVT8-24ND21-10W-01-, PVT8-30IND21-13W-, PVT8-36ND21-16W-, PVT8-42IND21-18W-, PVT8-48IND21-21W-, PVT8-60IND21-26W-, PVT8-64IND21-28W-, PVT8-72IND21-31W-, PVT8-84IND21-37W-, PVT8-96IND21-42W-, PVT8-108IND21-47W-, PVT8-117IND21-50W- or PVT8-120IND21-52W-; followed by two numbers; followed by -360-; followed by two numbers; followed by K.
			--	Updated Model Similarity for adding models.
			--	Updated rating for adding models.
			--	Updated other rating for adding models.
		3.0	44-81	Added photos.
		4.0	95-119	Added items.
		6.0	8	Updated Schematics features.
			9	Updated marking features and added supply connection marking.
			9, 10	Updated Cautionary marking features.
			11	Updated and added instruction for adding new models.
		7.0	1a, 53-80	Added Illustrations.
		8.0	-	Added Test Summary.

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
	Cont'd	9.0	ML1	Deleted ML "BEYOND SIGNS INC DBA BEYOND LED TECHNOLOGY" with below ML models: BLT-ST842-21W-60-, BLT-ST830-15W-60-, BLT-ST818-9W-60-, BLT-ST812-6W-60-, BLT-ST842-10.5W-80-, BLT-ST830-7.5W-80-, BLT-ST818-4.5W-80- or BLT-ST812-3W-80-; followed by two numbers; followed by K. BLT-ST842-21WD-60-, BLT-ST830-15WD-60-, BLT-ST818-9WD-60-, BLT-ST812-6WD-60-, BLT-ST842-10.5WD-80-, BLT-ST830-7.5WD-80-, BLT-ST818-4.5WD-80- or BLT-ST812-3WD-80-; followed by two numbers; followed by K.