1.0 Reference and Address			
Report Number	180103138GZU-001	Original Issued: 28-Jan-2018	Revised: 14-May-2018
Standard(s)	Standard For Relocatable Power Taps [UL 1363:2014 Ed.4+R:14Apr2017] CSA C22.2 No.308 Issued: 2014/12/01 Cord Reels and Multi-Outlet Assemblies Standard For Surge Protective Devices [UL 1449:2014 Ed.4+R:21Jul2017]		

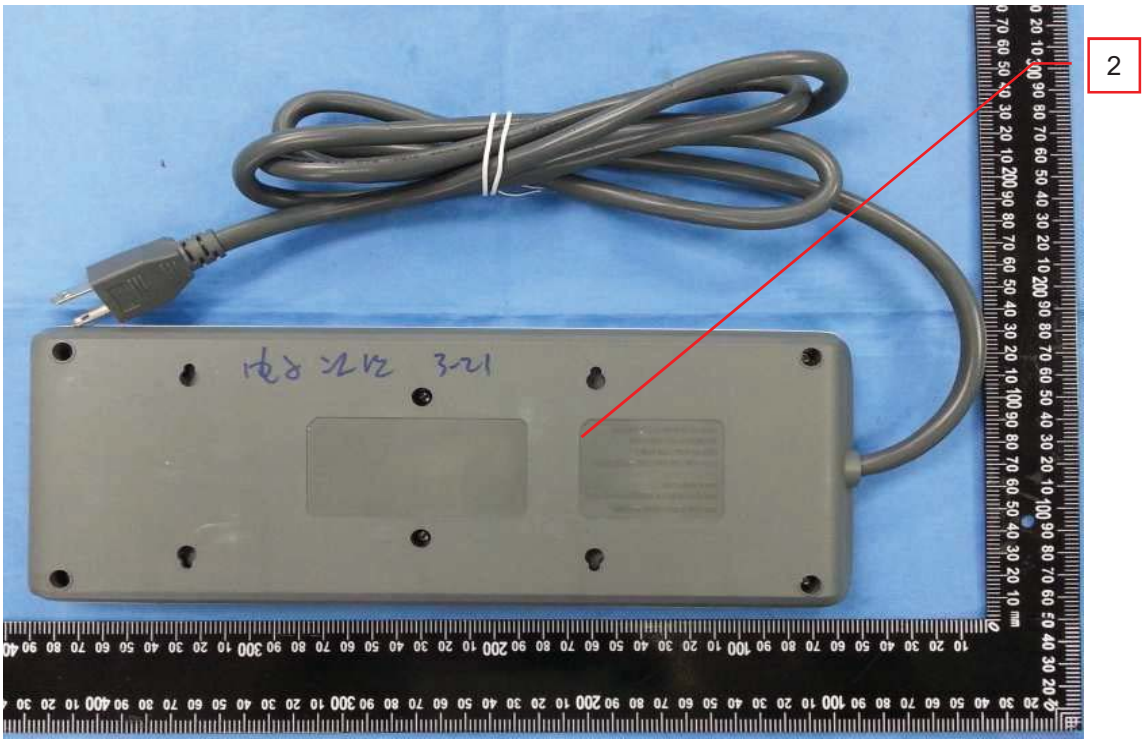
Applicant	Shenzhen Huntkey Electric Co., Ltd.	Manufacturer	**Shenzhen Huntkey Electronics Co., Ltd**
Address	EF Area, 4F of 1#Bld, Huntkey Industrial Park, XueXiang Village, Bantian Street, LONGGANG DISTRICT, SHENZHEN CITY Guangdong 518129	Address	ABCD Area, 4F of 1#Bldg, Huntkey Industrial Park, XueXiang Village, Bantian Street, LONGGANG DISTRICT, SHENZHEN CITY Guangdong 518129
Country	China	Country	China
Contact	Zhu Qing Ping	Contact	Zhu Qing Ping
Phone	0755-89606344	Phone	0755-89606344
FAX	--	FAX	--
Email	zhuqp@huntkey.net	Email	zhuqp@huntkey.net

2.0 Product Description	
Product	Relocatable power tap
Brand name	Huntkey, Kensington
Description	The products covered by this report are relocatable power taps for indoor dry location use only.
Models	SMD121, SMD127, SMD807, SMD507
Model Similarity	SMD121 and SMD127 are identical except that SMD121 without USB output and SMD127 with 3 USB output.
Ratings	15A 125VAC 60Hz Type 3 SPD VPR: L-N: 500V L-G: 500V N-G: 500V
Other Ratings	USB output: 5VDC 3.1A total (for model SMD127) 5VDC 2.4A total (for model SMD807, SMD507) 5VDC 2.1A total (for model SMD507 alternative)

3.0 Product Photographs

Photo 1 - General view of model SMD127

Photo 2 - Rear view of model SMD127



3.0 Product Photographs

Photo 3 - Internal view of model SMD127

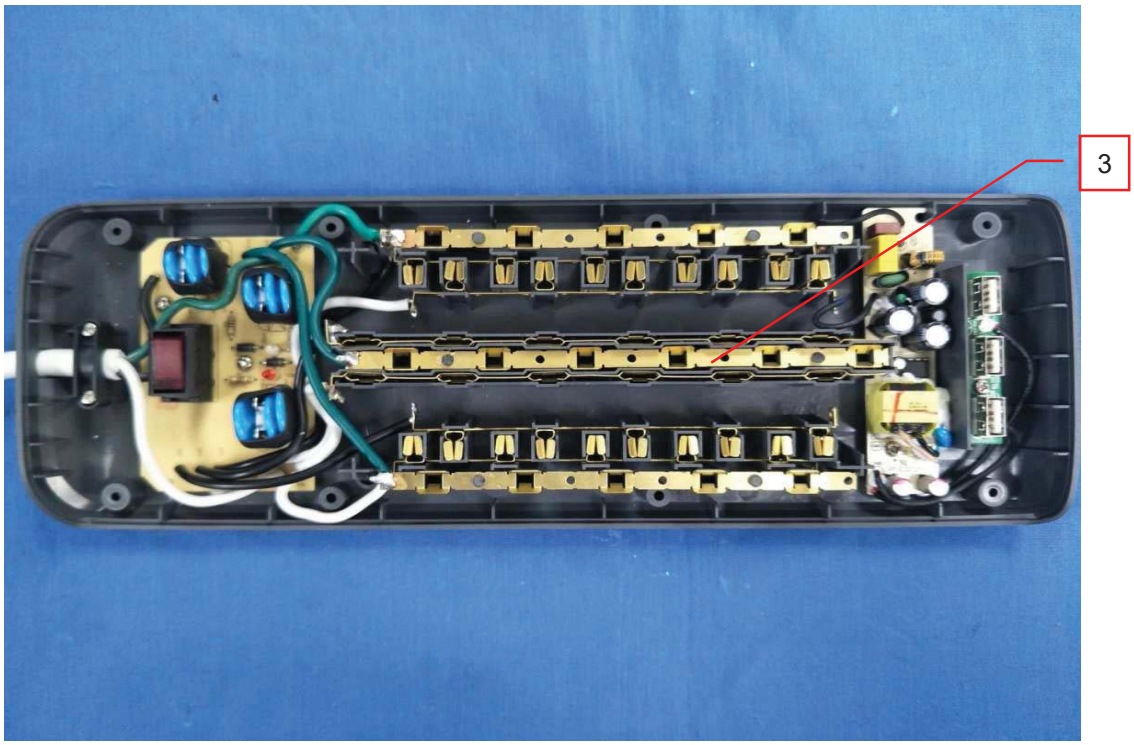
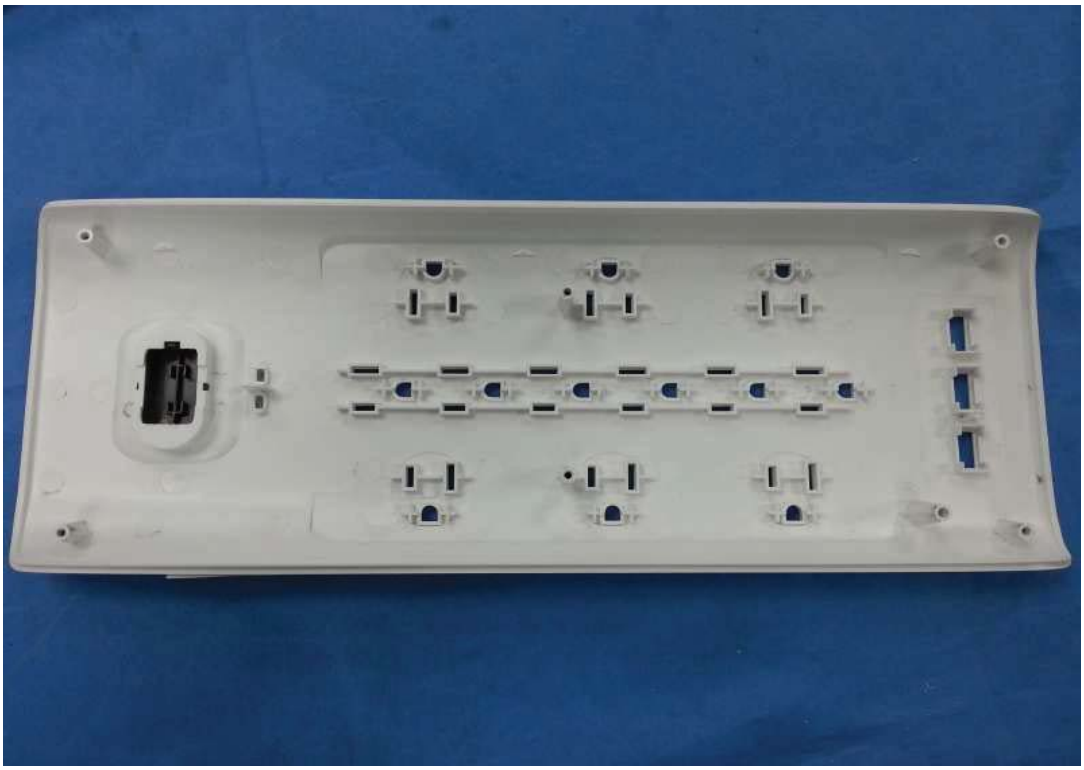


Photo 4 - Internal view of model SMD127



3.0 Product Photographs

Photo 5 - surge protection board of model SMD121 or SMD127

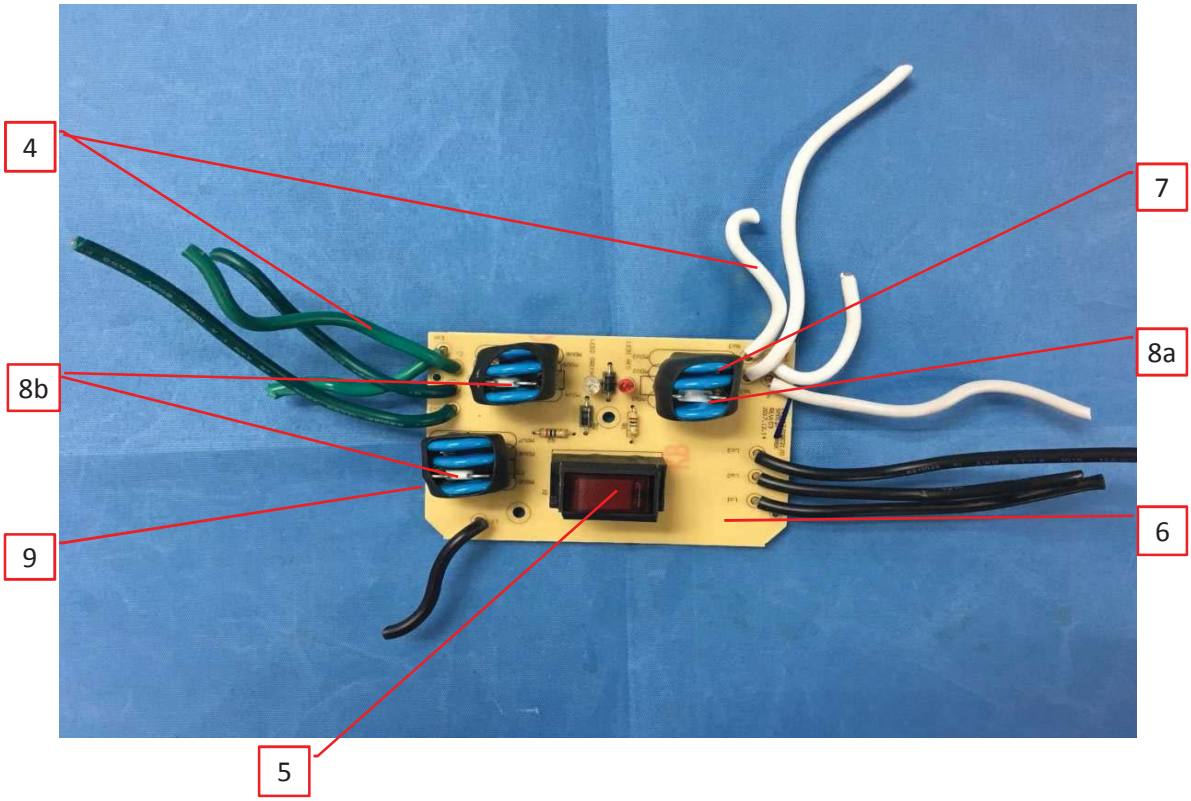
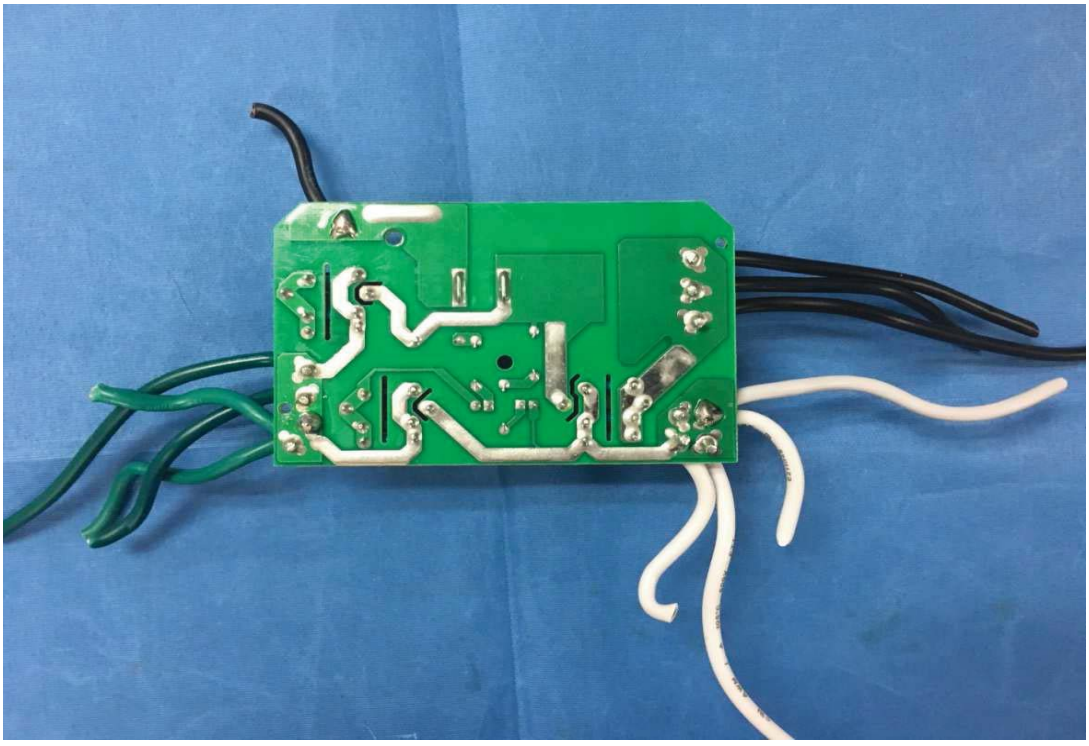


Photo 6 - Surge protection board of model SMD121 or SMD127



3.0 Product Photographs

Photo 7 - USB module of model SMD127

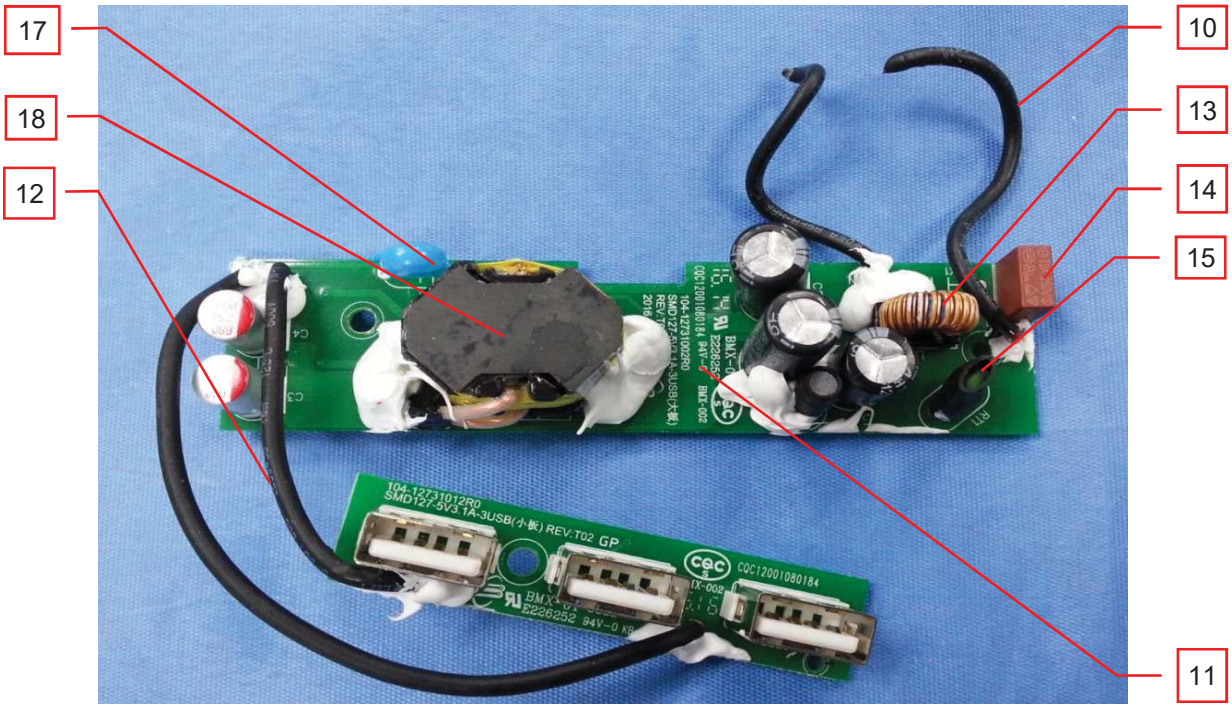
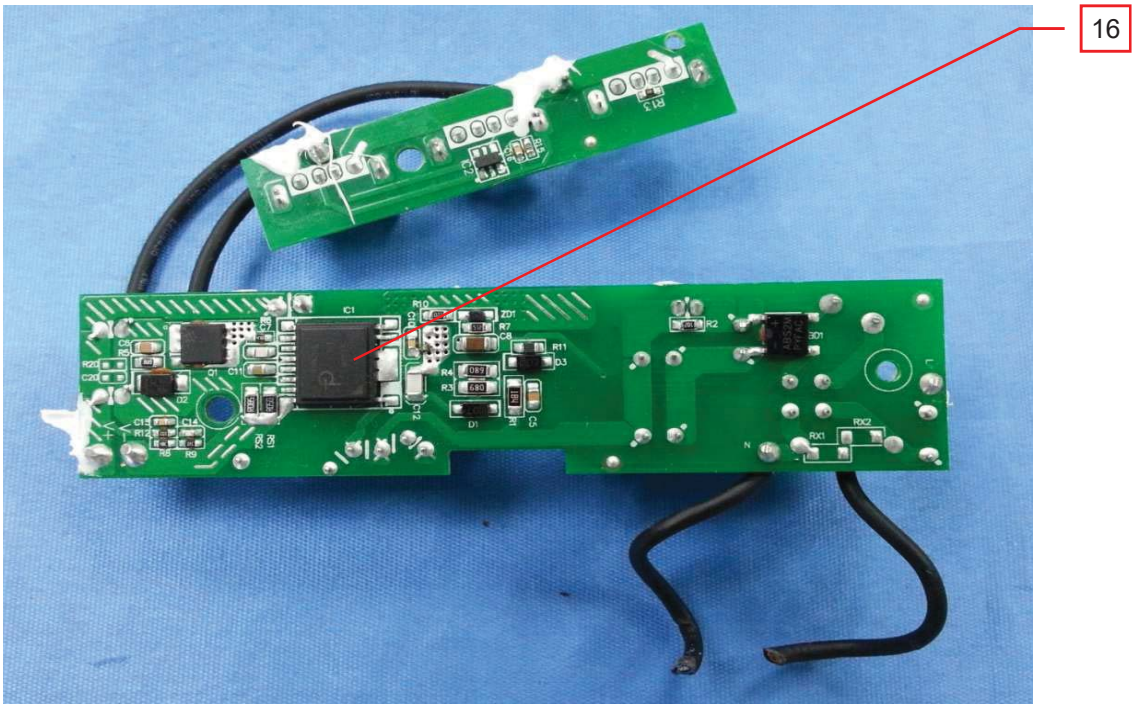


Photo 8 - USB module of model SMD127



3.0 Product Photographs

Photo 9 - Transformer employed in USB module of model SMD127

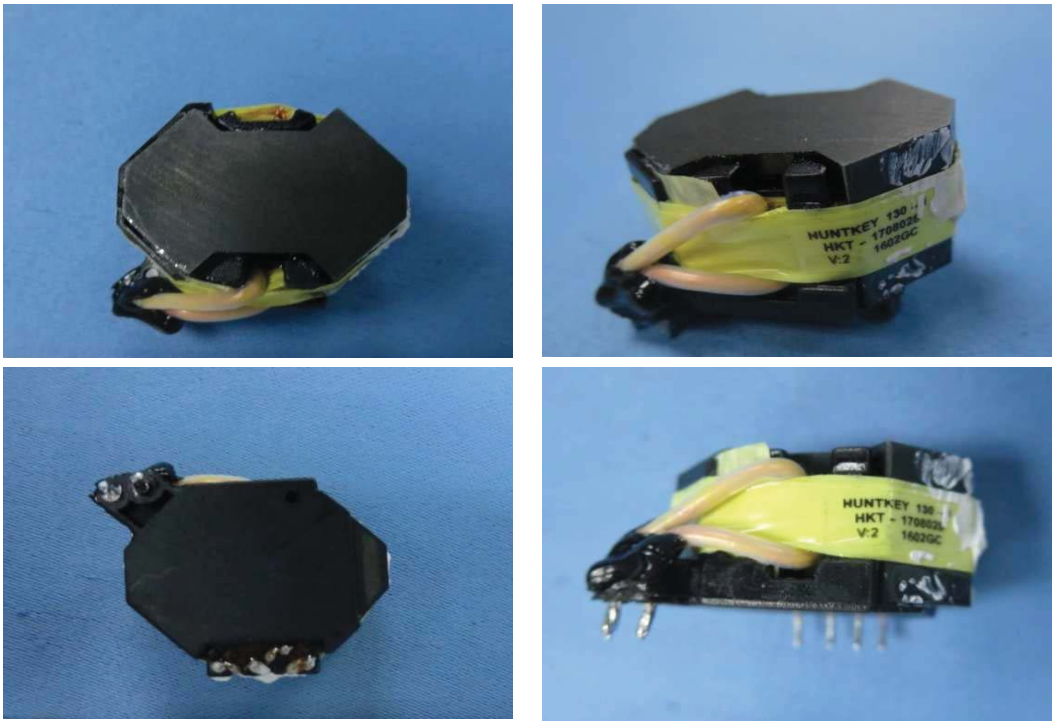
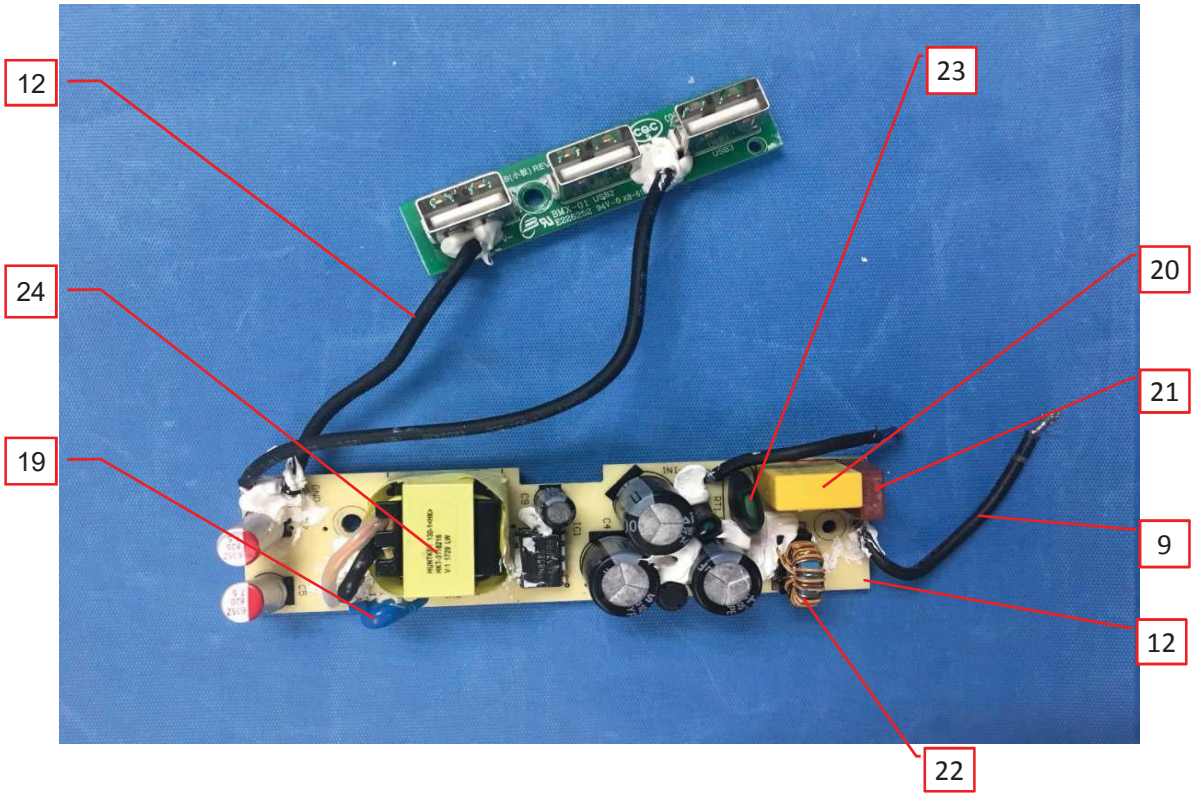


Photo 10 - Alternative USB module of model SMD127



3.0 Product Photographs

Photo 11 - Alternative USB module of model SMD127

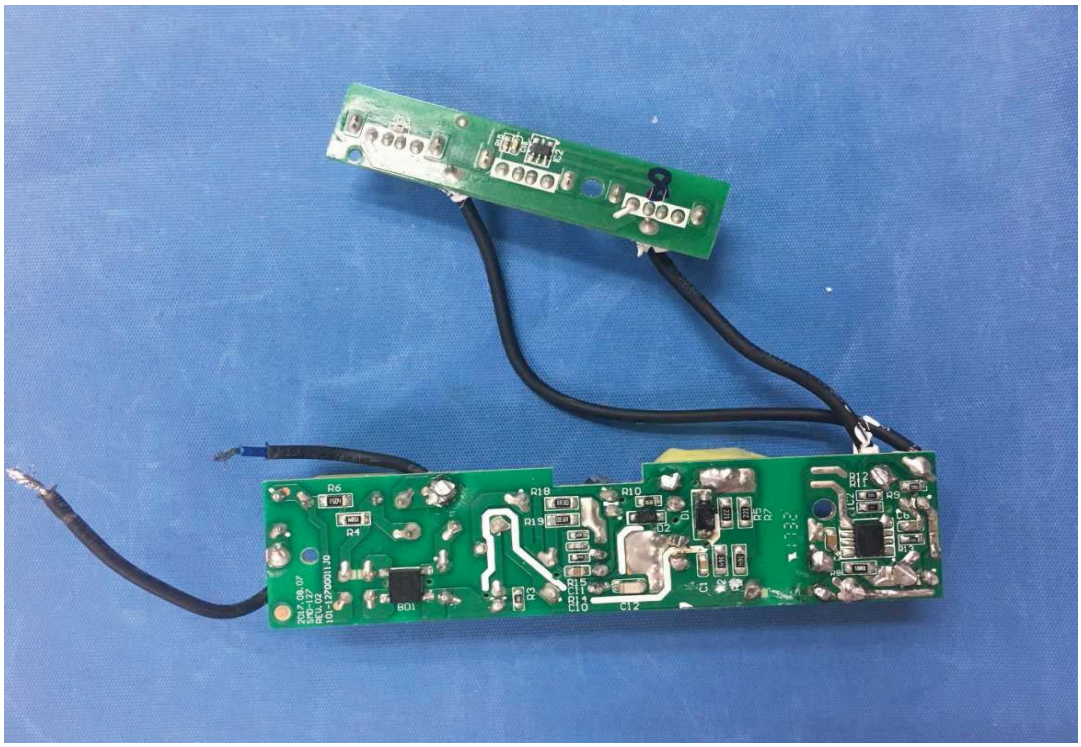
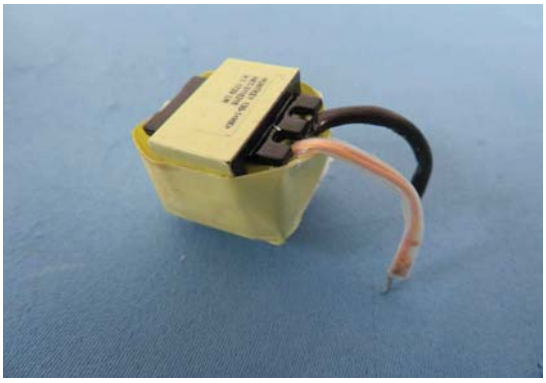
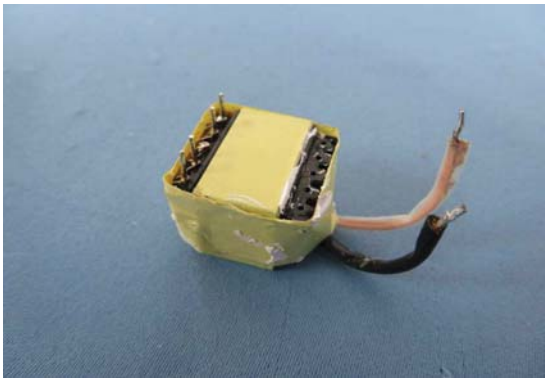


Photo 12 - Transformer view for alternative USB module





3.0 Product Photographs

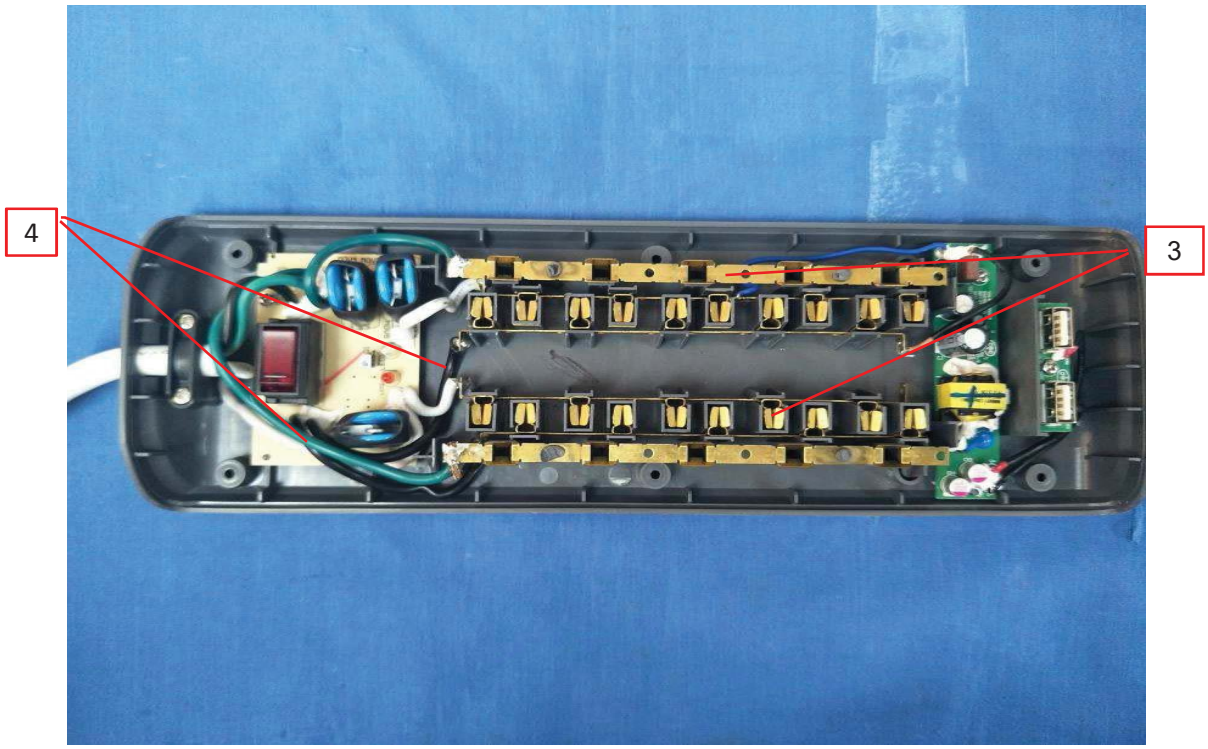
Photo 13 - General view of model SMD121

Photo 14 - General view of model SMD807

3.0 Product Photographs

Photo 15 - Rear view of model SMD807

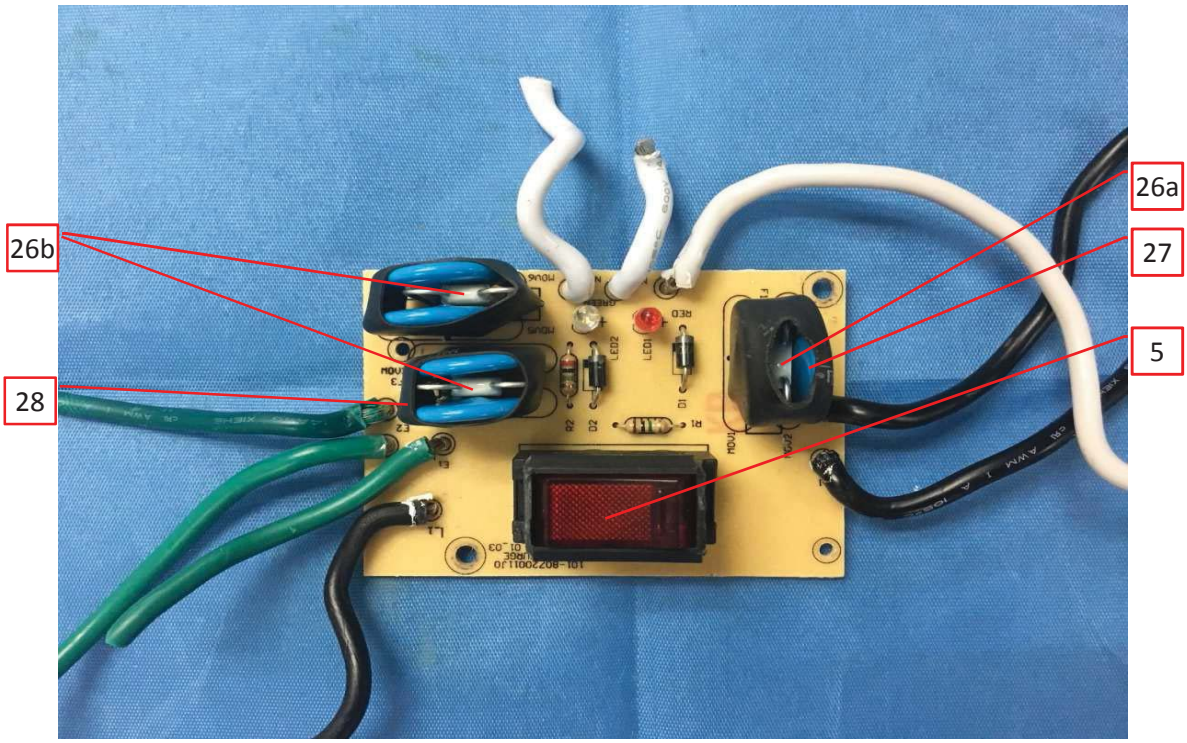
Photo 16 - Internal view of model SMD807



3.0 Product Photographs

Photo 17 - Internal view of model SMD807

Photo 18 - surge protection board of model SMD807



3.0 Product Photographs

Photo 19 - surge protection board of model SMD807

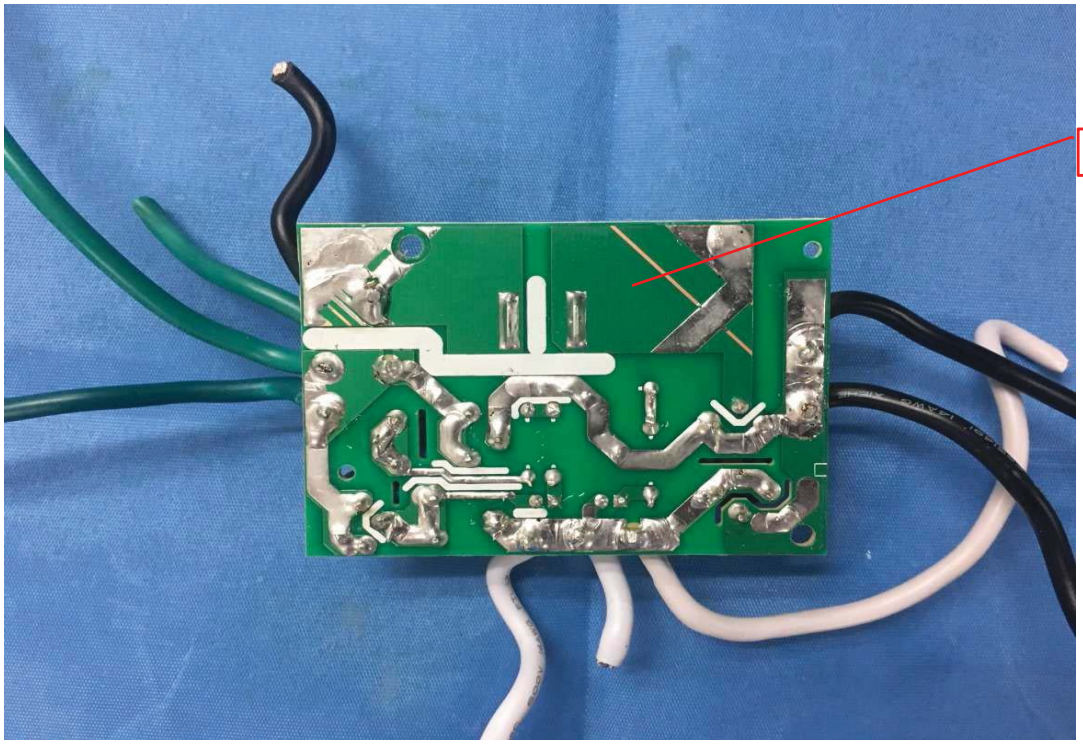
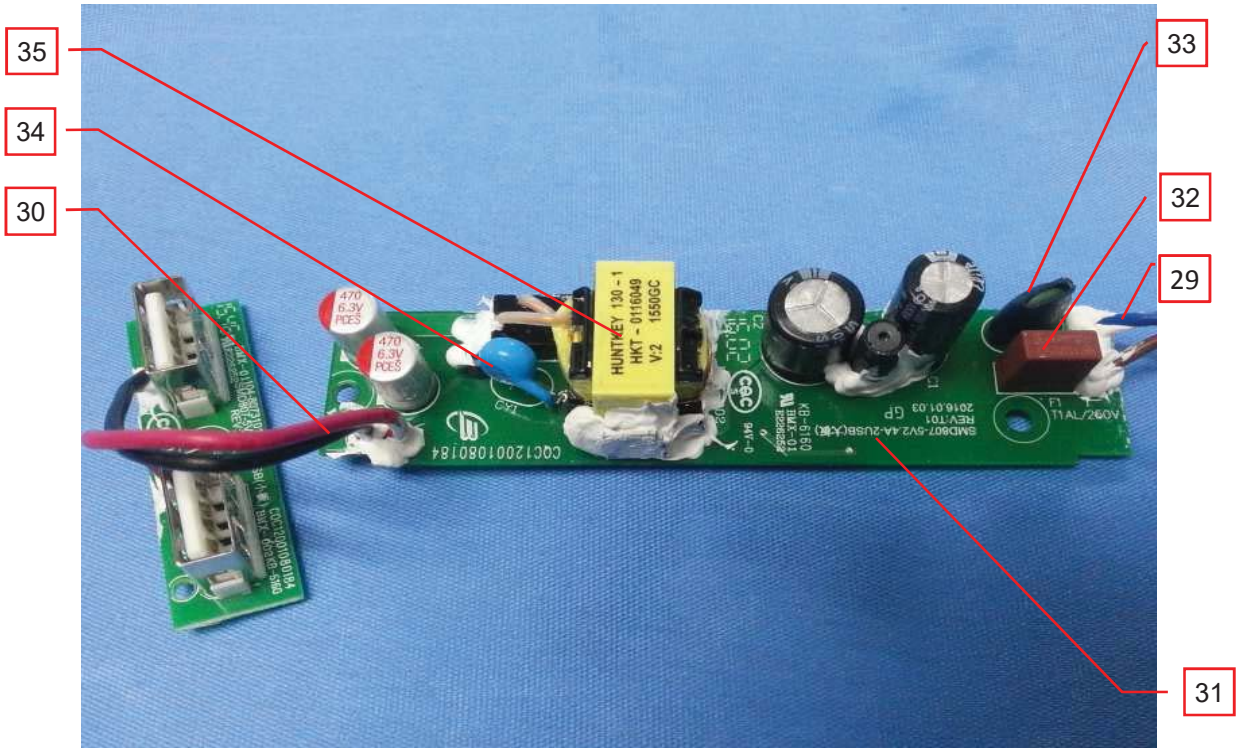


Photo 20 - USB module of model SMD807



3.0 Product Photographs

Photo 21 - USB module of model SMD807

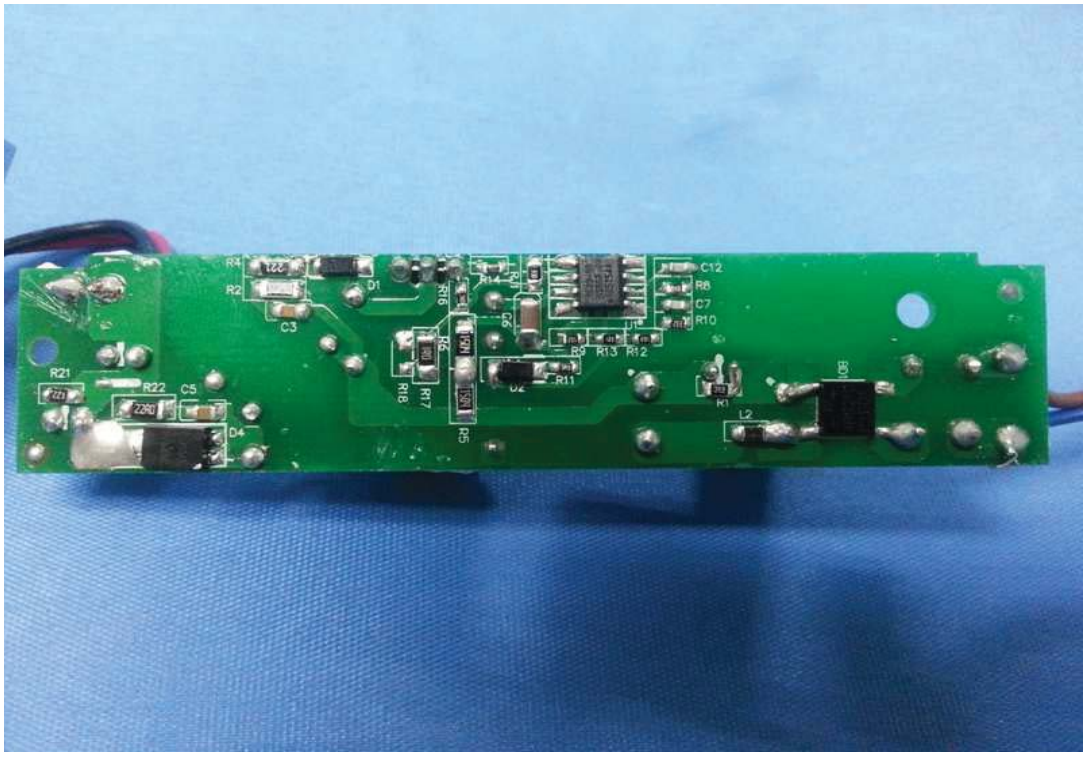
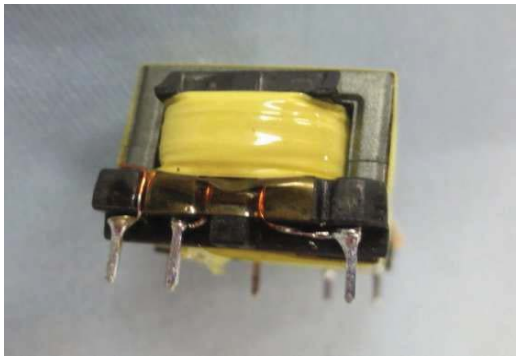
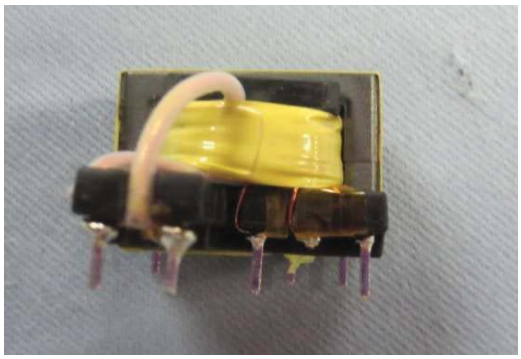


Photo 22 - Transformer employed in USB module of model SMD807





3.0 Product Photographs

Photo 23 - General view of model SMD507

Photo 24 - Rear view of model SMD507

3.0 Product Photographs

Photo 25 - Internal view of model SMD507

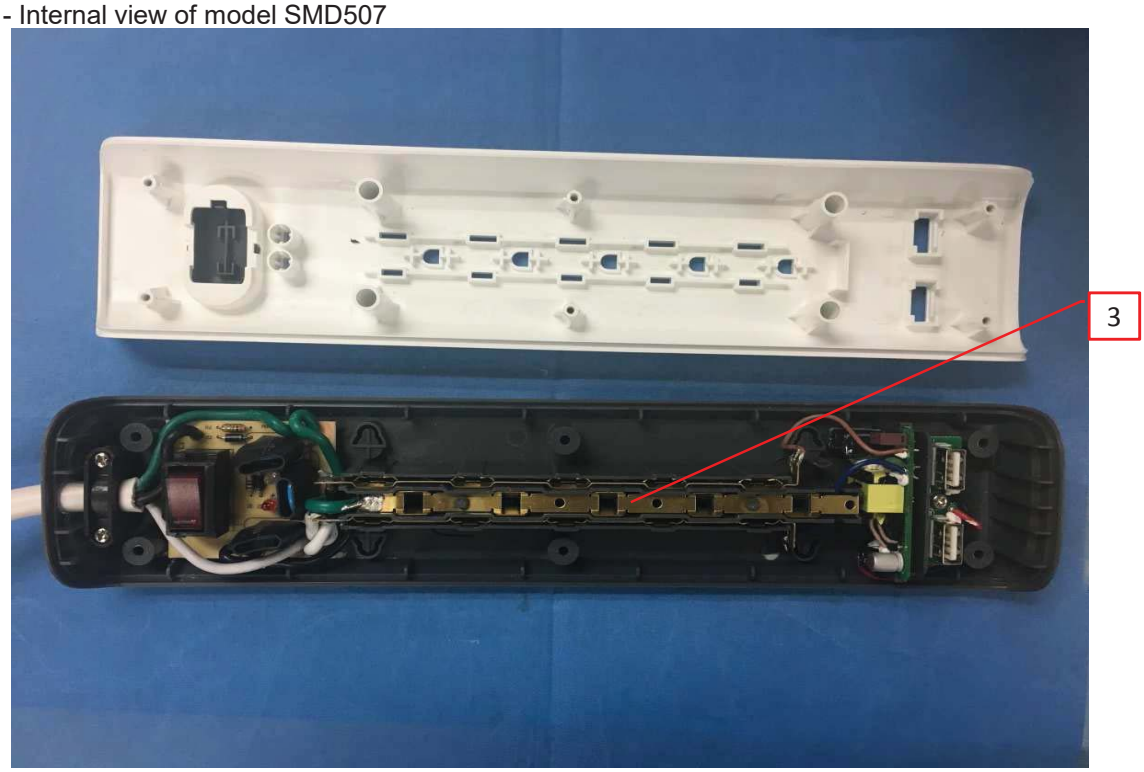
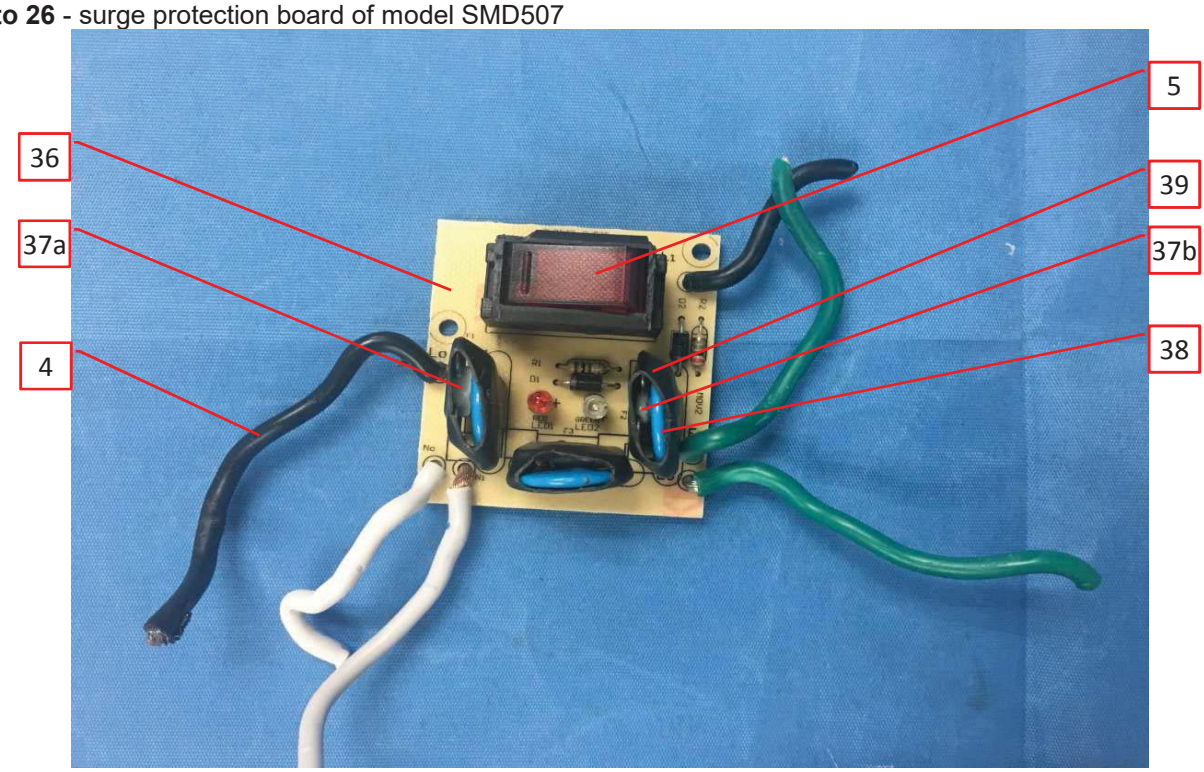


Photo 26 - surge protection board of model SMD507



3.0 Product Photographs

Photo 27 - surge protection board of model SMD507

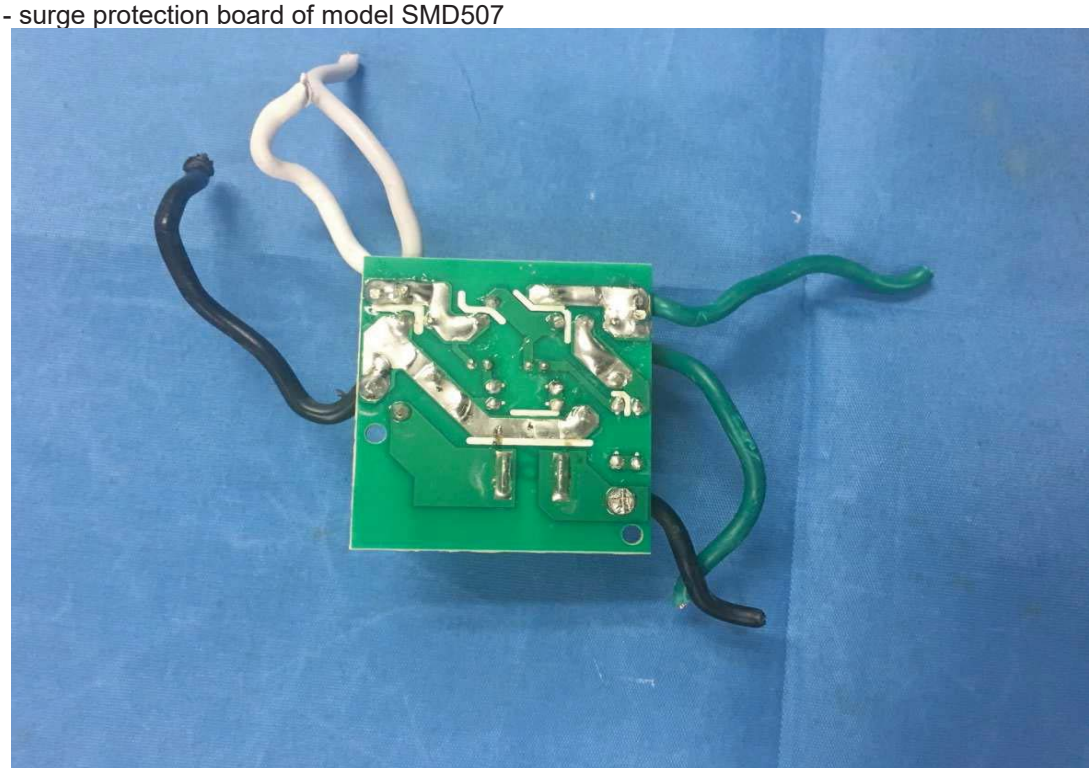
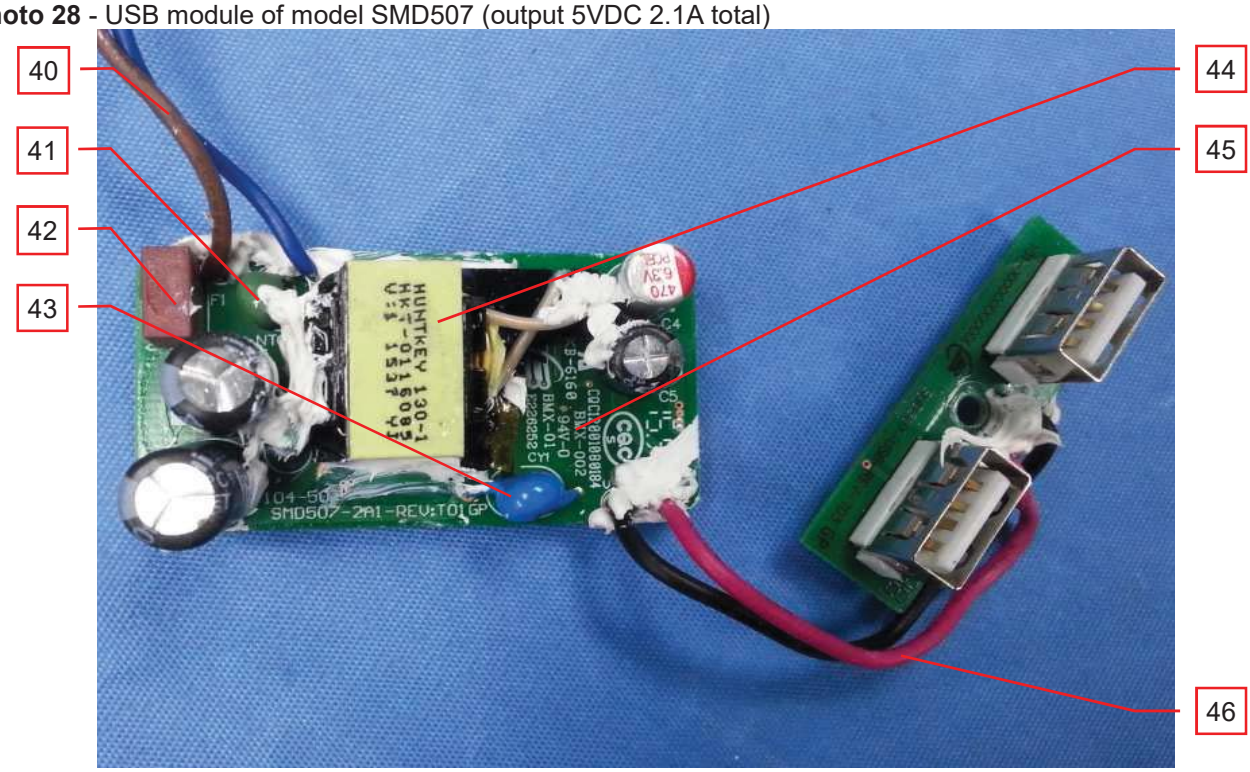


Photo 28 - USB module of model SMD507 (output 5VDC 2.1A total)



3.0 Product Photographs

Photo 29 - USB module of model SMD507 (output 5VDC 2.1A total)

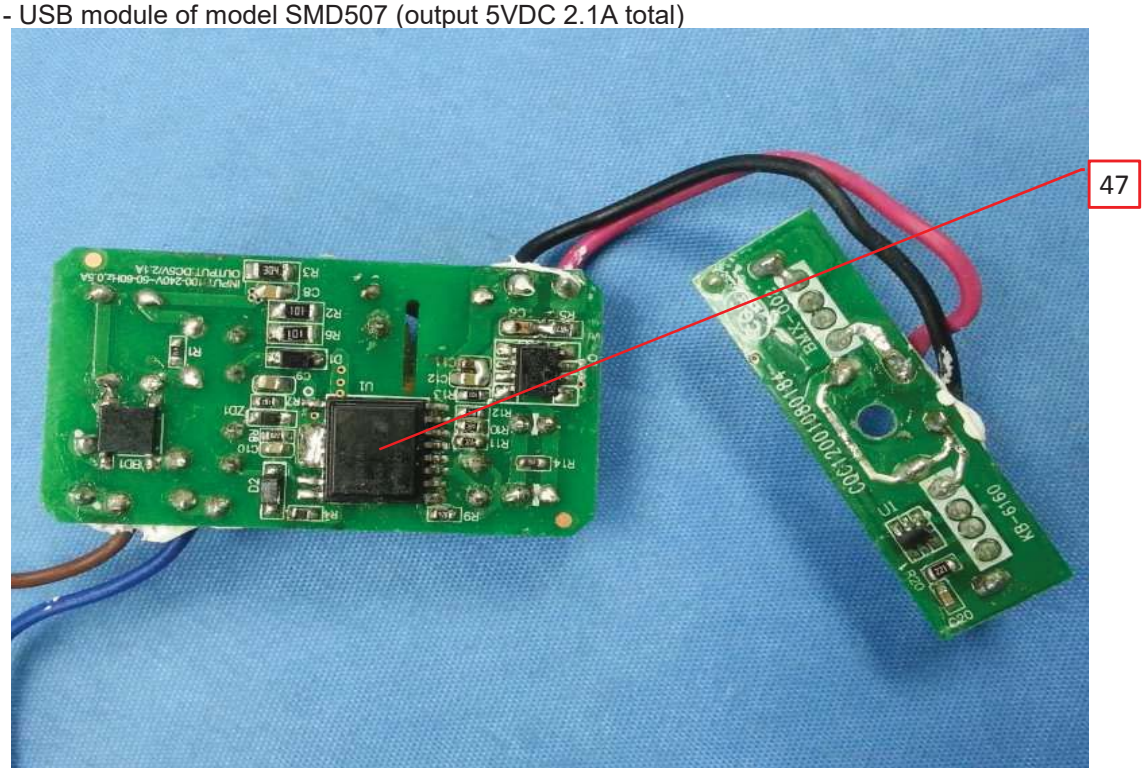
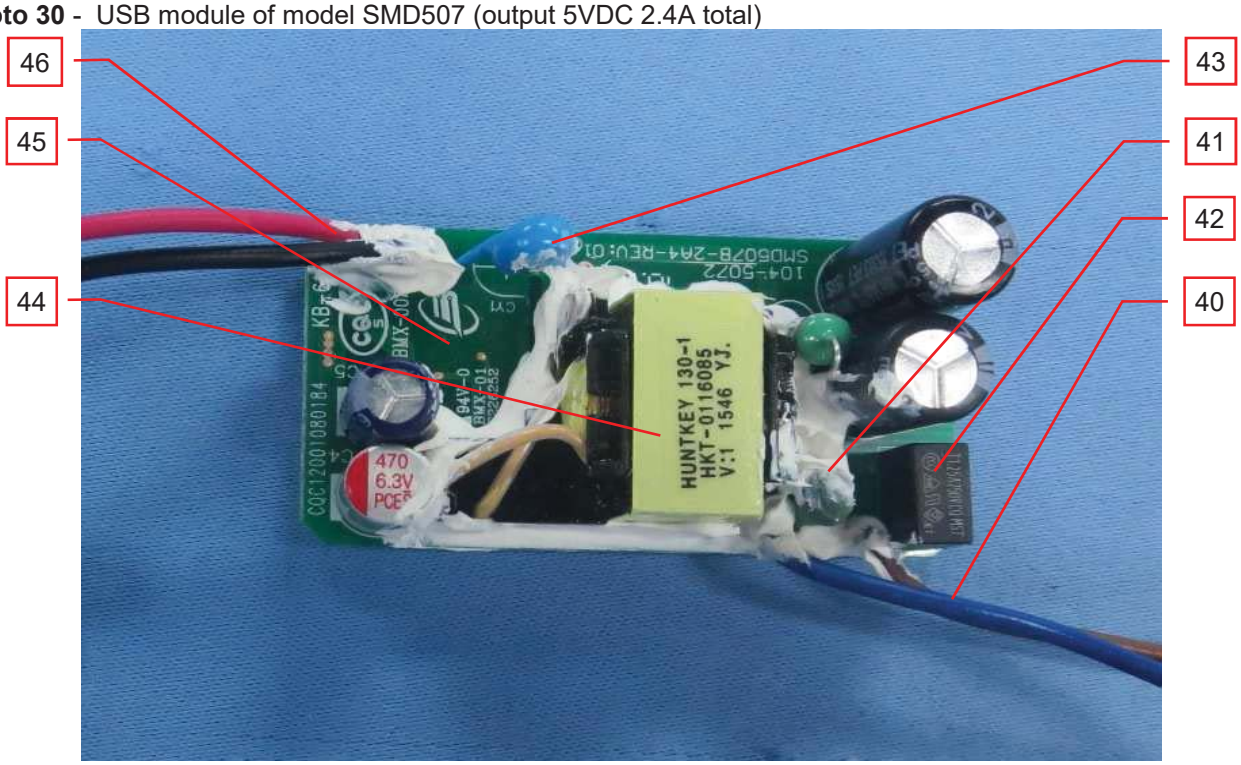


Photo 30 - USB module of model SMD507 (output 5VDC 2.4A total)



3.0 Product Photographs

Photo 31 - USB module of model SMD507 (output 5VDC 2.4A total)

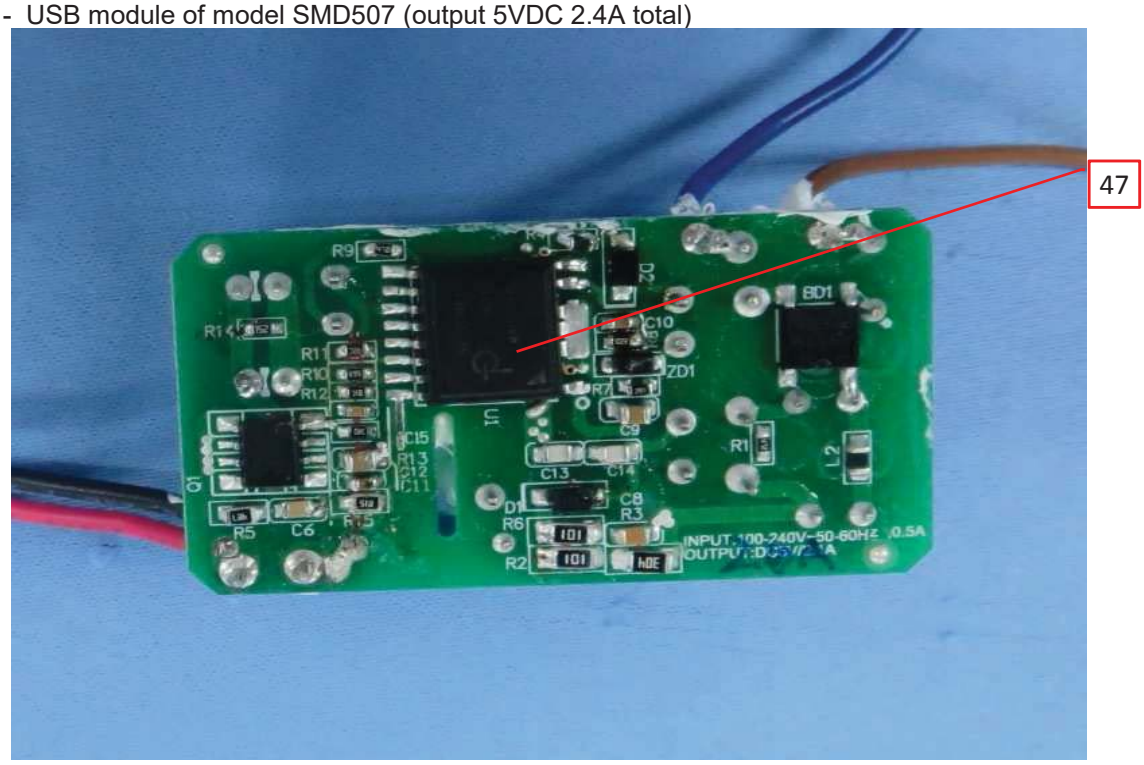
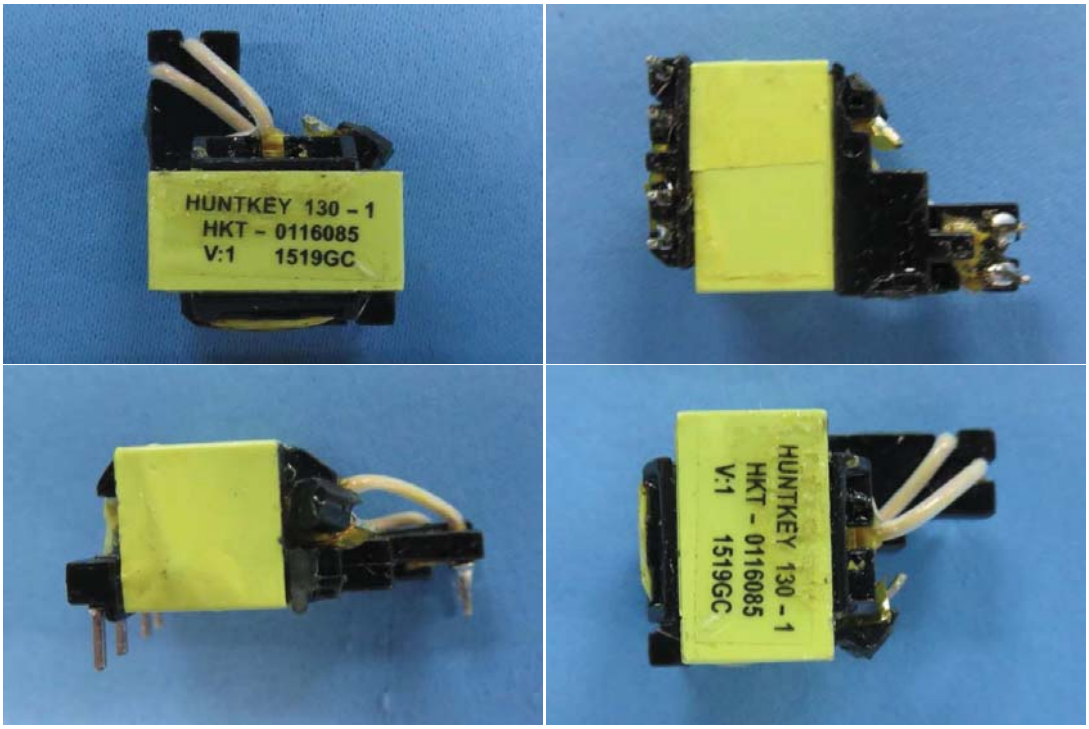


Photo 32 - Transformer employed in USB module of model SMD507



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]
1, 13, 15, 23	1	Power supply cord	Various	Various	125V 15A, with SJT cord, 14AWG, Min. 60℃, 300V, VW-1, length from 1.5 ft to 25 ft	cULus, cETLus
1, 2, 13, 14, 23, 24	2	Enclosure	CHI MEI CORPORATION	ABS / PA-765(+)	ABS, minimum thickness 1.5 mm, V-0, 80°C, HWI 2, HAI 0, CTI 1. Upper and lower enclosures are fixed together by 6 special screws.	cURus
			SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	ABS / 3360	ABS, minimum thickness 1.5 mm, V-0, 85°C, HWI 2, HAI 0, CTI 1. Upper and lower enclosures are fixed together by 6 special screws.	
				ABS / 3370		
			KINGFA SCI & TECH CO LTD	FW-620T	ABS, minimum thickness 1.5 mm, V-0, 80°C, HWI 2, HAI 0, CTI 0. Upper and lower enclosures are fixed together by 6 special screws.	
				FW-620HT		
3, 16, 25	3	Contact bars	Shenzhen Huntkey Electric Co Ltd	5-15R	125VAC 15A, brass, refer to Illustration 2, 3, 11 and 15 for details.	NR
5, 16, 26	4	Internal wires	Various	AWM 1015	14AWG, 105℃, 600V, VW-1. Black for line, white for neutral, green for grouding.	cURus, cETLus recognized
5, 18 26	5	Supplementary protector	JOEMEX ELECTRIC CORP	MS f/b L or Blank; f/b 05 thru 16; f/b A B or C; f/b 1 or 2	125VAC 15A	cURus
			CIXI YUN FEI ELECTRIC APPLIANCES CO LTD	YF f/b L or Blank; f/b 15; f/b 1	125VAC 15A	cURus
5	6	PCB	Various	Various	Minimum V-0, 130 ℃	cURus
5	7	Varistor	XIAMEN SET ELECTRONICS CO LTD	SFV20D201K	Nine provided, 200VAC, for use in SPD Type 3 applications	cURus
5	8a	Thermal link	XIAMEN SET ELECTRONICS CO LTD	T115	15A, 250VAC. Functioning Temperature 115℃, (F1)	cURus
5	8b	Thermal link	XIAMEN SET ELECTRONICS CO LTD	Y2	5A,250VAC.Functioning Temperature 115℃, (F2, F3)	cURus
5, 10	9	Shrinkable tubing	Various	Various	Three provided. Minimum 300V, 125 degree C, VW-1	cURus
7	10	Input wires	Various	AWM 1007	22AWG, 80℃, 300V, VW-1	cURus, cETLus recognized
7	11	PCB	Various	Various	Minimum V-0, 130 ℃	cURus
7, 10	12	Output wires	Various	AWM 1007	20AWG, 80℃, 300V, VW-1	cURus, cETLus recognized

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]
7	13	Common mode choke	HUI ZHOU DELI ELECTRONICS CO., LTD	181-01410010	450 μH minimum	NR
			FENGHUA ADVANCED TECHNOLOGY (HOLDING) CO., LTD	181-01410010	450 μH minimum	NR
7	14	Fuse	WALTER Electronic CO LTD	2010	T2A, 250VAC	cURus
7	15	Thermistor	THINKING ELECTRONIC INDUSTRIAL CO LTD	SCK-073	7Ω, 3A	cURus
8	16	IC1	POWER INTEGRATIONS INC	INN2005K	Isolation Voltage, 3500 Vac, 125 ℃	cURus
7	17	Y Capacitor	Various	Various	Maximum 1000 pF, minimum 250 Vac, minimum 125 ℃, Y1	cURus
7	18	Transformer	Shenzhen Huntkey Electric Co Ltd	HKT-1708028	Class B, refer to Illustration 7 of Section 7.0 for details.	NR
7	18a	Bobbin (Not shown)	SUMITOMO BAKELITE Co., LTD	PM-9820	V-0, 150 ℃	UR
				PM-9630		
			CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150 ℃	UR
7	18b	Magnet wire (Not shown)	TAI-I ELECTRIC WIRE & CABLE CO LTD	UEW	Polyurethane, 130 ℃	UR
			SHENZHEN CHENGWEI INDUSTRY CO LTD	2UEW	Polyurethane, 130 ℃	UR
7	18c	Triple insulation wire (Not shown)	TA YA ELECTRIC WIRE & CABLE CO LTD	TILW-B	130 ℃.	UR
				TILW-E		
				TILW-F		
7	18d	Teflon tube (Not shown)	P LEO & CO (B C) LTD	2T-TFS	200 ℃, 600 V. VW-1.	cURus
			GREAT HOLDING INDUSTRIAL CO LTD	TFS	200 ℃, 600 V. VW-1.	UR
			SUMITOMO ELECTRIC FINE POLYMER INC	Sumitube F2	125 ℃, 600 V. VW-1.	cURus
			ZEUS INDUSTRIAL PRODUCTS INC	TFE-TW-300	200 ℃, 300 V. VW-1.	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]
7	18e	Insulation tape (Not shown)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130 ℃	UR
				1350F-2		
				1350T-1		
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130 ℃	UR
				CT		
7	18f	Varnish (Not shown)	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	468-2	130 ℃	UR
				MW 28-C		
			JOHN C DOLPH CO	BC-346A	130 ℃	UR
				BC-346B		
10	19	Y Capacitor	GUANGDONG SOUTH HONGMING ELECTRONIC SCIENCE & TECHNOLOGY CO LTD	F	1000pF max, 250Vac min, 125°C min, Y1 type.	cURus
			Various	Various	Maximum 1000 pF, minimum 250 Vac, minimum 125 ℃, Y1	cURus
10	20	Capacitor (CX1)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	0.1uF max, 250Vac min, 110°C min, X2 type.	cURus
			Various	Various	0.1uF max, 250Vac min, 110°C min, X2 type.	cURus
10	21	Fuse	WALTER ELECTRONIC CO LTD	2010	T2A, AC 250V	cURus
10	22	Common mode choke	Shenzhen Huntkey Electric Co.,Ltd	HKL-0309142	630uH min, 130°C	NR
10	23	Thermistor	THINKING ELECTRONIC INDUSTRIAL CO LTD	SCK-2R55A	2.5ohm,5A	cURus
10	24	Transformer	Shenzhen Huntkey Electric Co Ltd, E325776	HKT-3116216	Class B, UL insulation system HUNTKEY 130-1	NR
19	25	PCB	Various	Various	Minimum V-0, 130 ℃	cURus
18	26a	Thermal link	XIAMEN SET ELECTRONICS CO LTD	T115	15A, 250VAC. Functioning Temperature 115℃, (F1)	cURus
18	26b	Thermal link	XIAMEN SET ELECTRONICS CO LTD	Y2	5A,250VAC.Functioning Temperature 115℃, (F2, F3)	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]
18	27	Varistor	XIAMEN SET ELECTRONICS CO LTD	SFV20D201K	Nine provided, 200VAC, for use in SPD Type 3 applications	cURus
18	28	Shrinkable tubing	Various	Various	Three provided. Minimum 300V, 125 degree C, VW-1	cURus
20	29	Input wires	Various	AWM 1007	22AWG, 80℃, 300V, VW-1	cURus, cETLus recognized
20	30	Output wires	Various	AWM 1007	20AWG, 80℃, 300V, VW-1	cURus, cETLus recognized
20	31	PCB	Various	Various	Minimum V-0, 130 ℃	cURus
20	32	Fuse	WALTER ELECTRONIC CO LTD	2010	T1.0A, 250VAC	cURus
20	33	Thermistor	THINKING ELECTRONIC INDUSTRIAL CO LTD	SCK-073	7Ω, 3A	cURus
20	34	Y Capacitor	Various	Various	220 pF, 250 Vac, 125 ℃, Y1	cURus
20	35	Transformer	Shenzhen Huntkey Electric Co Ltd	HKT-0116049	Class B, refer to Illustration 13 of Section 7.0 for details.	NR
20	35a	Bobbin (Not shown)	SUMITOMO BAKELITE Co., LTD	PM-9820	V-0, 150 ℃	UR
				PM-9630		
			CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150 ℃	UR
20	35b	Magnet wire (Not shown)	TAI-I ELECTRIC WIRE & CABLE CO LTD	UEW	Polyurethane, 130 ℃	UR
			SHENZHEN CHENGWEI INDUSTRY CO LTD	2UEW	Polyurethane, 130 ℃	UR
20	35c	Triple insulation wire (Not shown)	TA YA ELECTRIC WIRE & CABLE CO LTD	TILW-B	130 ℃.	UR
				TILW-E		
				TILW-F		
20	35d	Teflon tube (Not shown)	P LEO & CO (B C) LTD	2T-TFS	200 ℃, 600 V. VW-1.	cURus
			GREAT HOLDING INDUSTRIAL CO	TFS	200 ℃, 600 V. VW-1.	UR
			SUMITOMO ELECTRIC FINE POLYMER INC	Sumitube F2	125 ℃, 600 V. VW-1.	cURus
			ZEUS INDUSTRIAL PRODUCTS INC	TFE-TW-300	200 ℃, 300 V. VW-1.	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]
20	35e	Insulation tape (Not shown)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130 ℃	UR
				1350F-2		
				1350T-1		
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130 ℃	UR
				CT		
20	35f	Varnish (Not shown)	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	468-2,	130 ℃	UR
				MW 28-C		
			JOHN C DOLPH CO	BC-346A	130 ℃	UR
				BC-346B		
26	36	PCB	Various	Various	Minimum V-0, 130 ℃	cURus
26	37a	Thermal link	XIAMEN SET ELECTRONICS CO LTD	T115	15A, 250VAC. Functioning Temperature 115℃, (F1)	cURus
26	37b	Thermal link	XIAMEN SET ELECTRONICS CO LTD	Y2	5A,250VAC.Functioning Temperature 115℃, Two provided(F2, F3)	cURus
26	38	Varistor	XIAMEN SET ELECTRONICS CO LTD	SFV20D201K	Three provided, 200VAC, for use in SPD Type 3 applications	cURus
26	39	Shrinkable tubing	Various	Various	Three provided. Minimum 300V, 125 degree C, VW-1	cURus
28, 30	40	Input wires	Various	AWM 1007	22AWG, 80℃, 300V, VW-1	cURus, cETLus recognized
28, 30	41	Thermistor (NTC1)	THINKING ELECTRONIC INDUSTRIAL CO LTD	SCK-20X3	20Ω, 0.3A	cURus
28, 30	42	Fuse (F1)	WALTER ELECTRONIC CO LTD	2010	T1.25A, 250VAC	cURus
28, 30	43	Capacitor (CY1)	Various	Various	Maximum 1000 pF, minimum 250 Vac, minimum 125 ℃, Y1	cURus
28, 30	44	Transformer	Shenzhen Huntkey Electric Co Ltd	HKT-0116085	Class B, refer to Illustration 18 of Section 7.0 for details.	NR
28, 30	44a	Bobbin (Not shown)	SUMITOMO BAKELITE Co., LTD	PM-9820	V-0, 150 ℃	UR
				PM-9630		
			CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150 ℃	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, 30	44b	Magnet wire (Not shown)	TAI-I ELECTRIC WIRE & CABLE CO LTD	UEW	Polyurethane, 130 ℃	UR
			SHENZHEN CHENGWEI INDUSTRY CO LTD	2UEW	Polyurethane, 130 ℃	UR
28, 30	44c	Triple insulation wire (Not shown)	TA YA ELECTRIC WIRE & CABLE CO LTD	TILW-B TILW-E TILW-F	130 ℃.	UR
28, 30	44d	Teflon tube (Not shown)	P LEO & CO (B C) LTD	2T-TFS	200 ℃, 600 V. VW-1.	cURus
			GREAT HOLDING INDUSTRIAL CO LTD	TFS	200 ℃, 600 V. VW-1.	UR
			SUMITOMO ELECTRIC FINE POLYMER INC	Sumitube F2	125 ℃, 600 V. VW-1.	cURus
			ZEUS INDUSTRIAL PRODUCTS INC	TFE-TW-300	200 ℃, 300 V. VW-1.	UR
28, 30	44e	Insulation tape (Not shown)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 1350F-2 1350T-1	130 ℃	UR
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT	130 ℃	UR
28, 30	44f	Varnish (Not shown)	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	468-2, MW 28-C	130 ℃	UR
			JOHN C DOLPH CO	BC-346A BC-346B	130 ℃	UR
28, 30	45	PCB	Various	Various	Minimum V-0, 130 ℃	cURus
28, 30	46	Output wires	Various	AWM 1007	20AWG, 80℃, 300V, VW-1	cURus, cETLus recognized
29, 31	47	IC (U1)	POWER INTEGRATIONS INC	SC1229K1	Isolation Voltage, 3500 Vac, 125 ℃	cURus
2, 15, 24	48	Label (Not shown)	DONG GUAN GAOQI PRINTING CO LTD	A-300-C	Max. 60 degree C, suitable to ABS surface.	cURus

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 perio

5.0 Critical Unlisted CEC Components

No Unlisted CEC components are used in this report.

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.

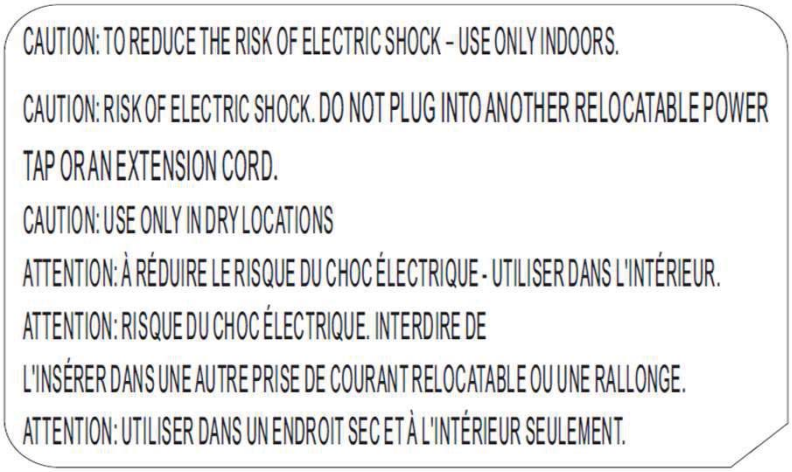
Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements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

1. Spacing - In primary circuits, 1.2 mm minimum spacing are maintained between any uninsulated live part and an uninsulated live part of opposite polarity, uninsulated grounded part other than the enclosure. 6.4 mm minimum spacing are maintained between any uninsulated live part and the walls of the metal enclosure.
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 - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4.
5. Grounding - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the grounding lead of the power supply cord.
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 Sec. 7.0 Illustration 2 - 18 for schematics requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked on a labeling system as described in item no. 48 of Section 4.0 or by a permanent method such as molding into polymeric enclosure or printing, painting onto polymeric enclosure as follows: Refer to Section 7.0 Illustrations 1 for details.
10. Cautionary Markings - The following are required:
    Refer to Illustration 1 of Sec. 7.0 for details.
11. Installation, Operating and Safety Instructions - NA

7.0 Illustrations

Illustration 1 - Marking.

The following marking is shown on the enclosure of product (representative).



Remark:
a) The ETL logo shall not be less than 8 mm in diameter, and the “US” and "C" shall not be less than 2 mm in height.
b) The "Intertek" shall not be less than 3 mm in height,
c) The Control Number "4008657" shall not be less than 2 mm in height.
d) The "CONFORMS TO UL STD. 1363, 1449" "CERTIFIED TO CSA STD. C22.2 NO. 308" shall not be less than 1.5 mm in height.
e) The cautionary lettering shall not be less than 2.4 mm in height.
f) All warning shall be bilingual (Enlish and French)
g) The brand name, model and rating above are representative. Refer to Section 2.0 and section 9.0 for other brand name, model and rating.

7.0 Illustrations

Illustration 2 - NEMA 5-15R standard sheet (unit:inch)

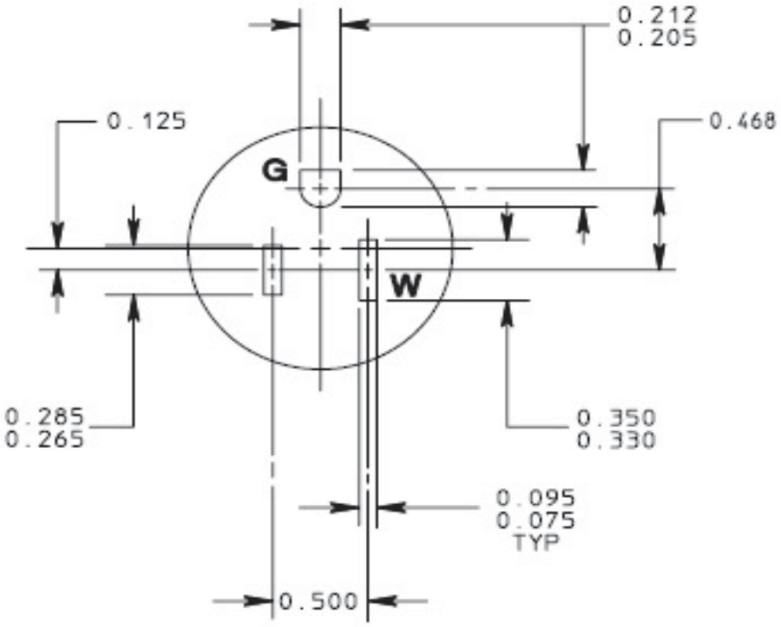
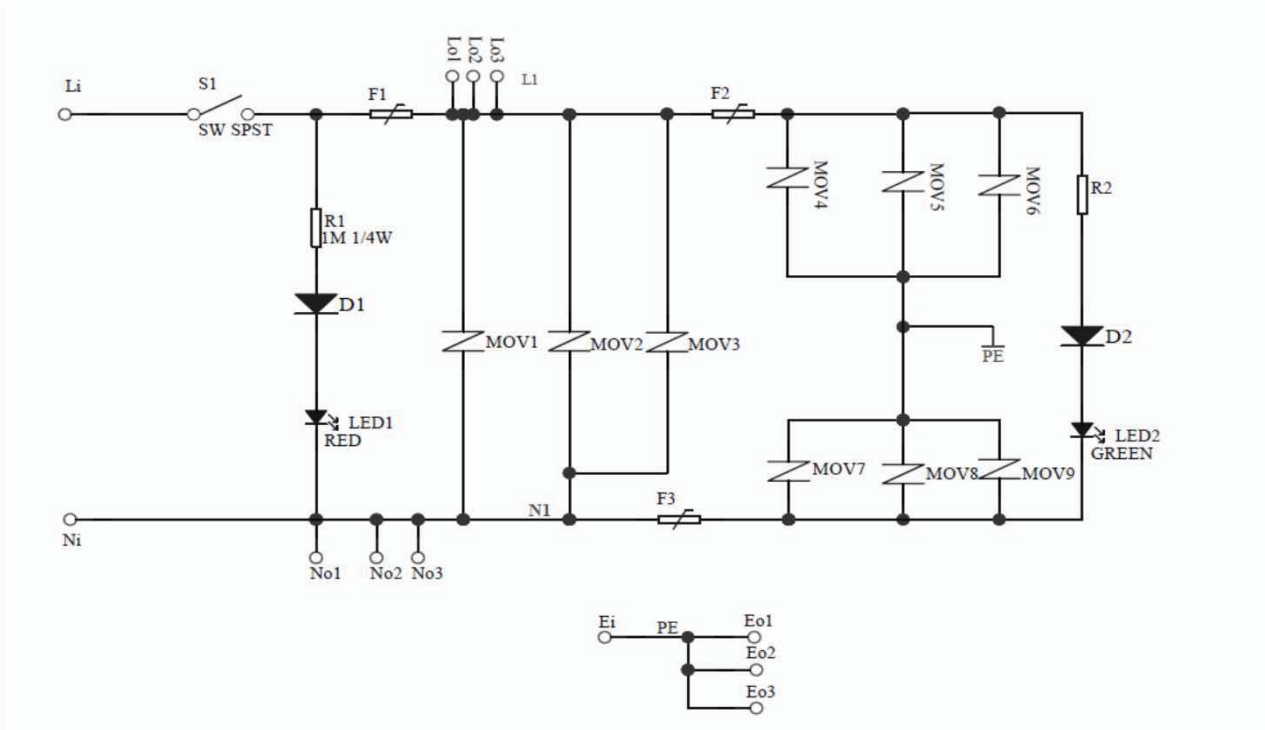
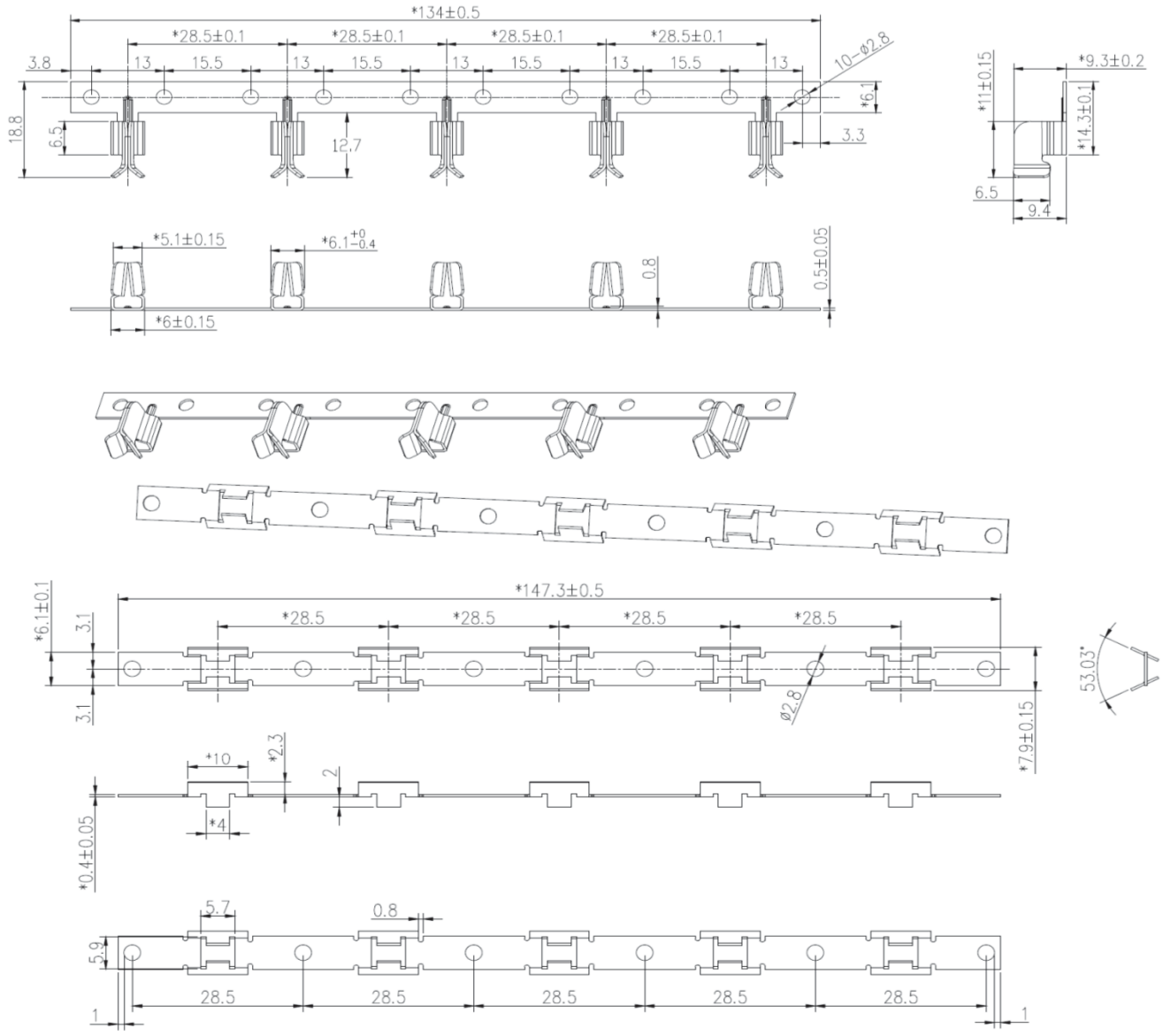


Illustration 3 - Circuit diagram for surge protection board of models SMD 121 and SMD127.



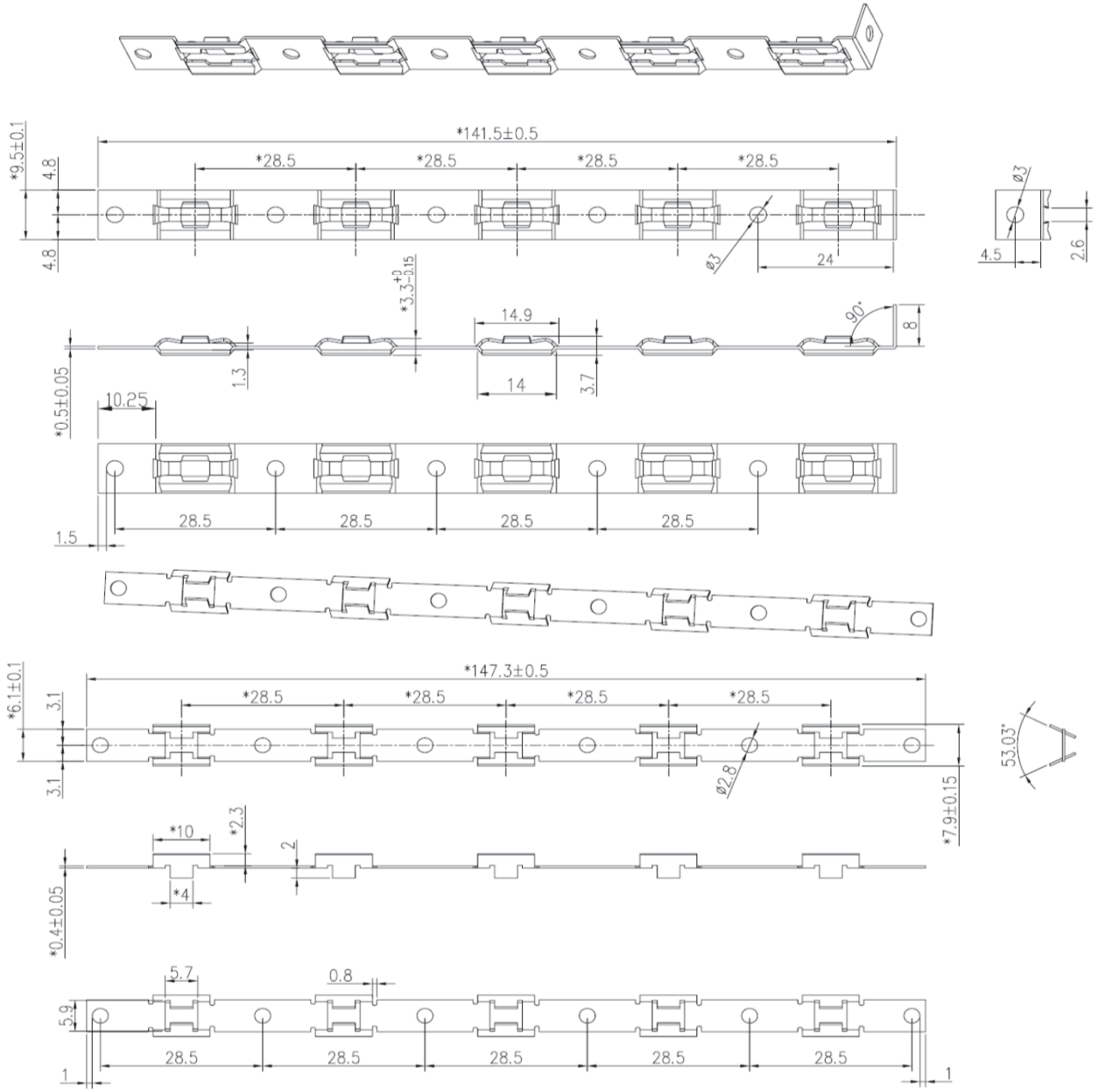
7.0 Illustrations

Illustration 4 - Construction drawing of contact bars used on model SMD121 and SMD127



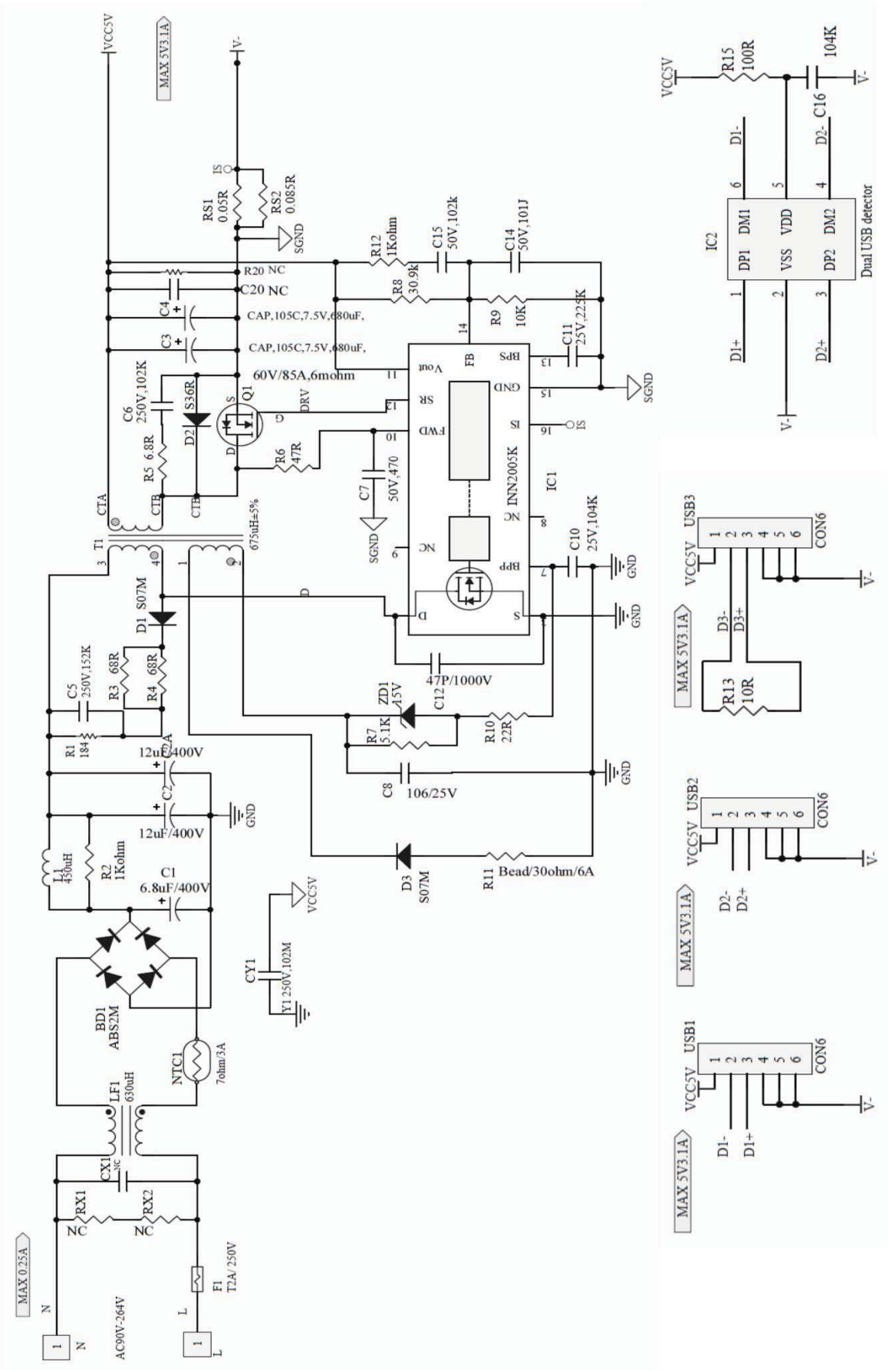
7.0 Illustrations

Illustration 5 - Construction drawing of contact bars used on model SMD121 and SMD127



7.0 Illustrations

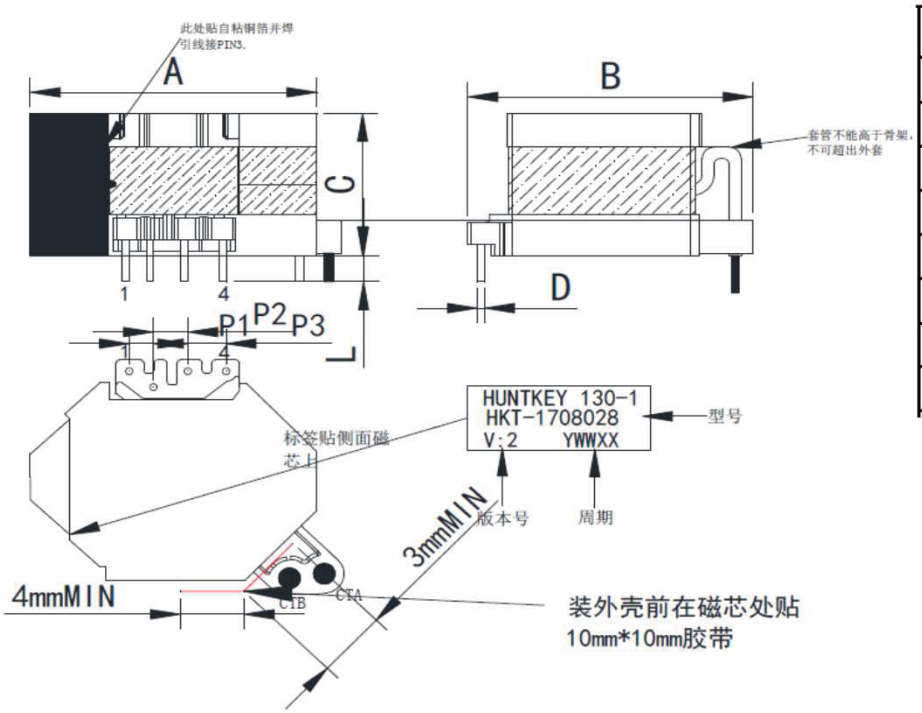
Illustration 6 - Schematic of USB module of model SMD127



7.0 Illustrations

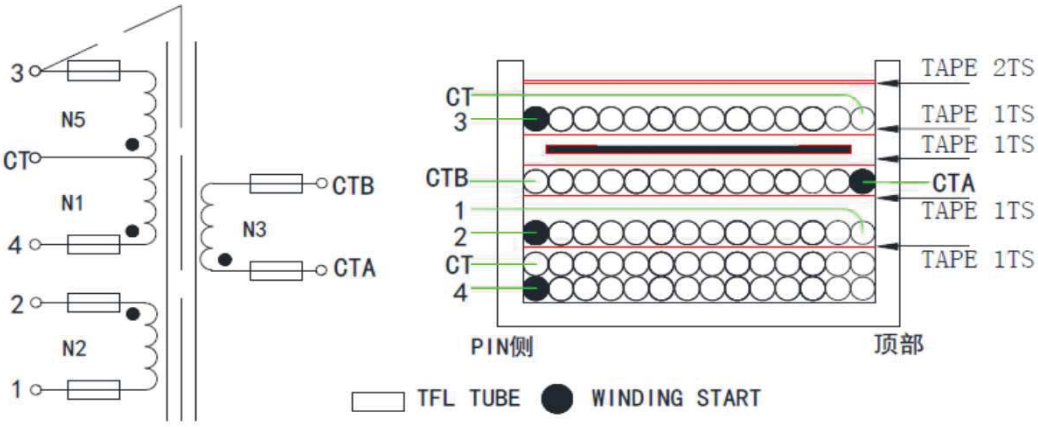
Illustration 7 - Specification of transformer HKT-1708028

Dimensions (unit: mm)



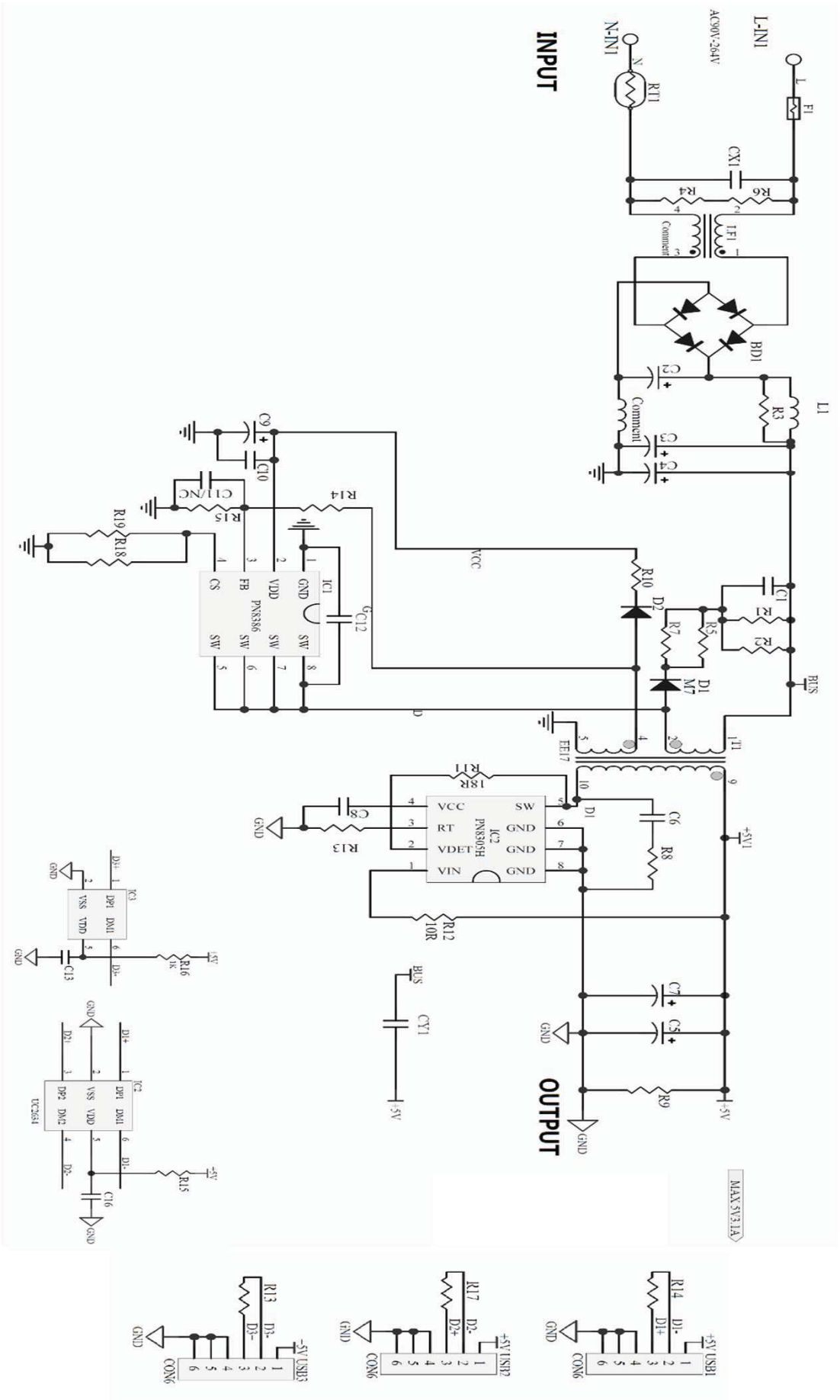
代码	标准值	公差	备注
A	26.5	MAX	长度
B	22.5	MAX	宽度
C	12.8	MAX	高度
D	0.6	±0.1	脚径
L	2.5	±0.3	脚长
P1	2.02	±0.3	脚距
P2	2.88	±0.2	脚距
P3	3.20	±0.3	脚距

Schematic & Configuration



7.0 Illustrations

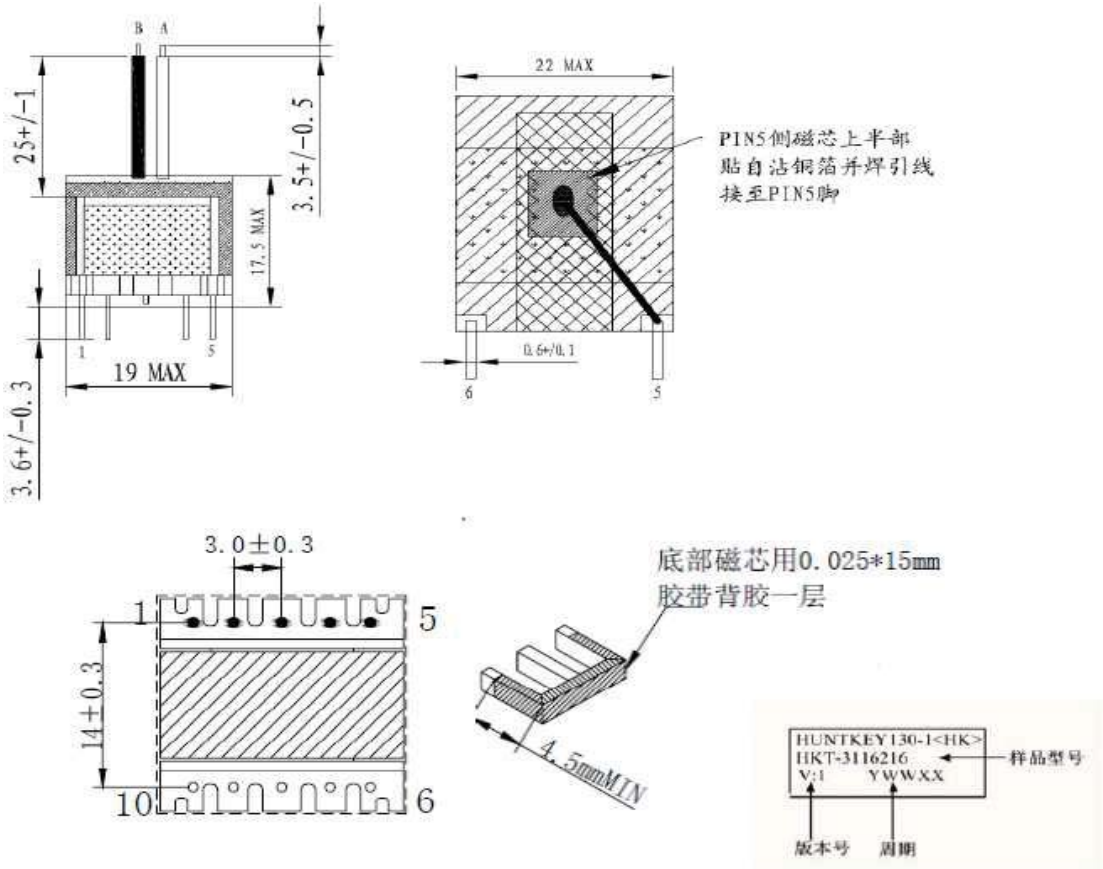
Illustration 8 - Alternative Schematic of USB module of model SMD127



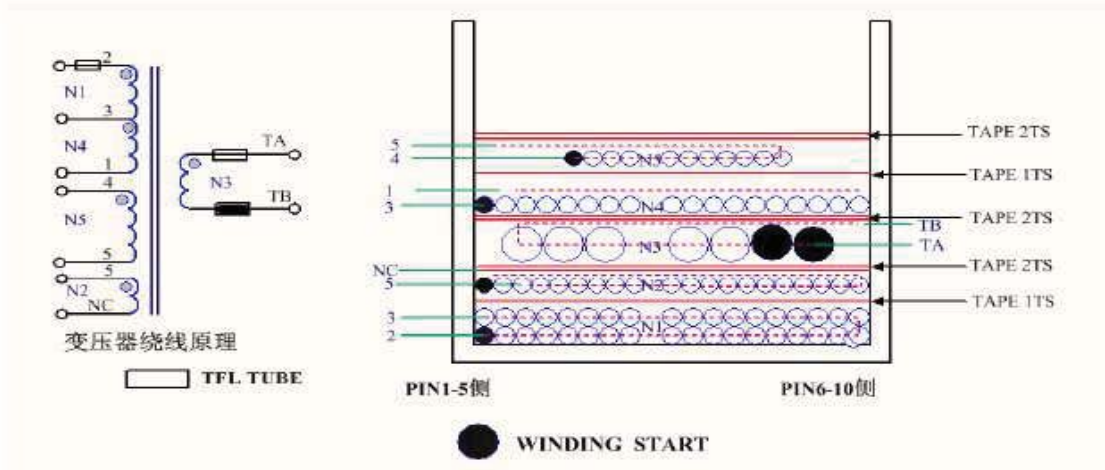
7.0 Illustrations

Illustration 9 - Specification of transformer HKT-3116216

Dimensions (unit: mm)



Schematic & Configuration



7.0 Illustrations

Illustration 10 - Circuit diagram for surge protection board of models SMD807.

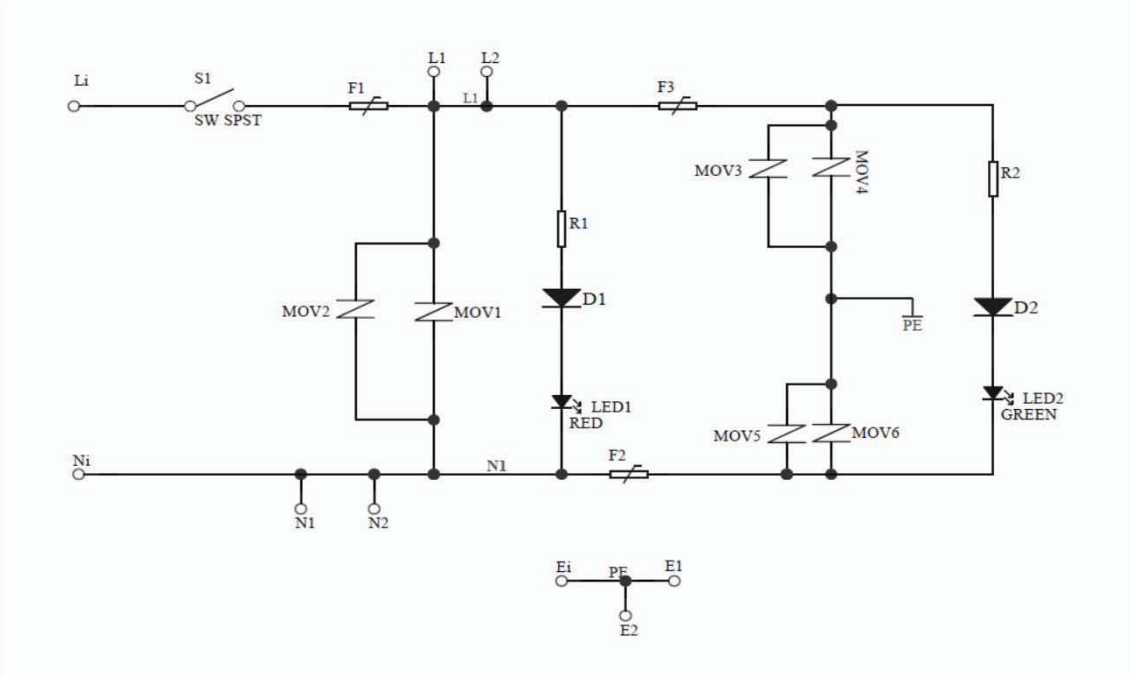
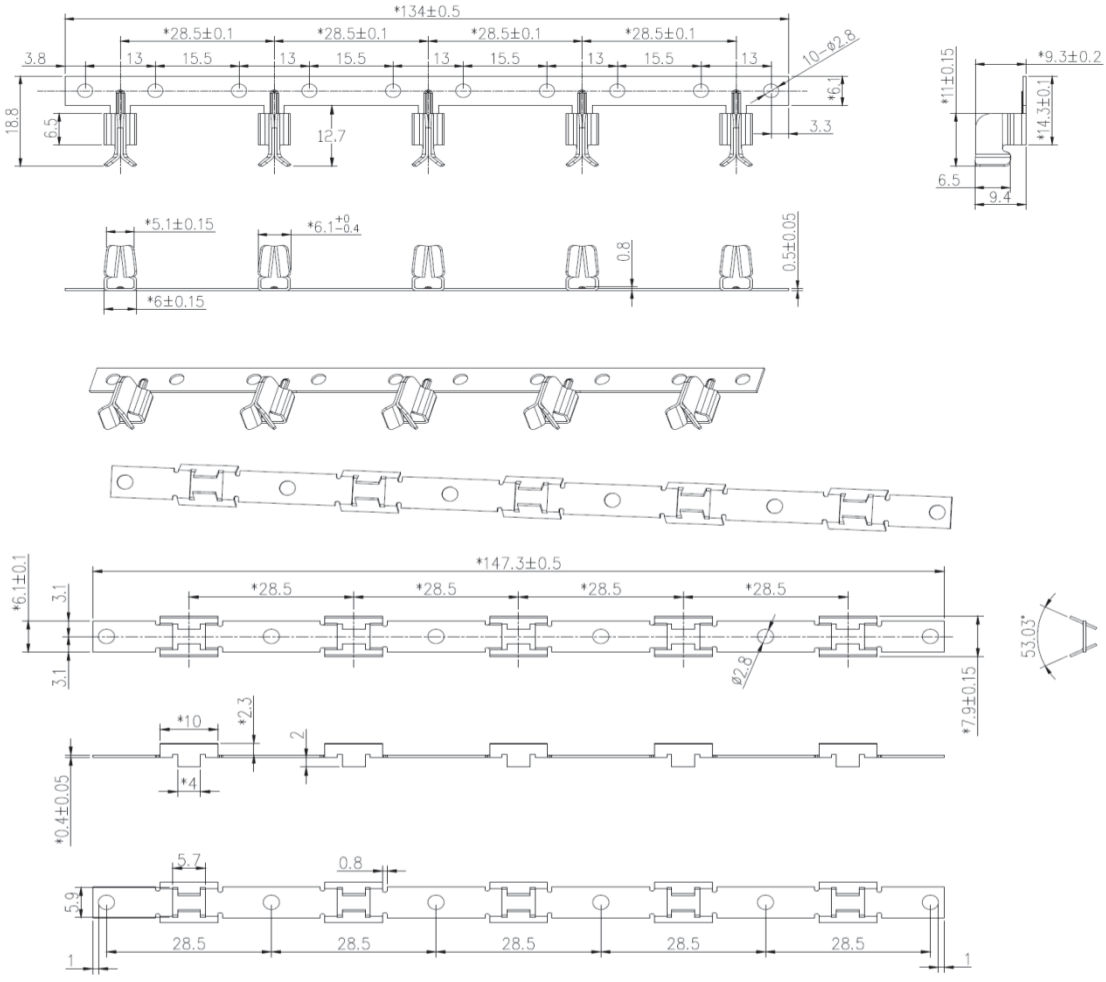
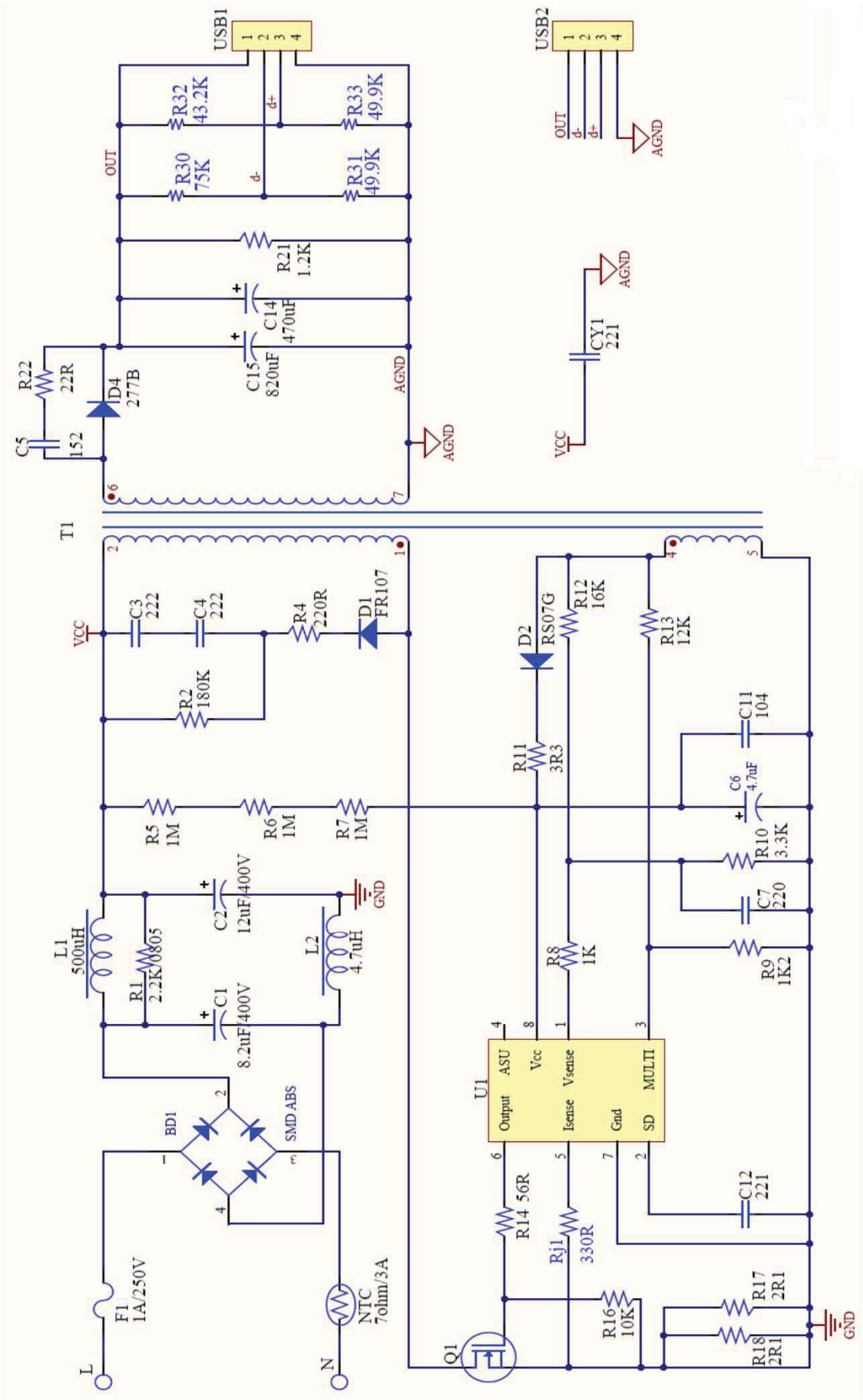


Illustration 11 - Construction drawing of contact bars used on model SMD807,



7.0 Illustrations

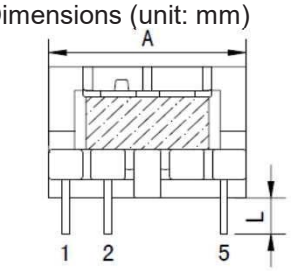
Illustration 12 - Schematic of USB module of model SMD807

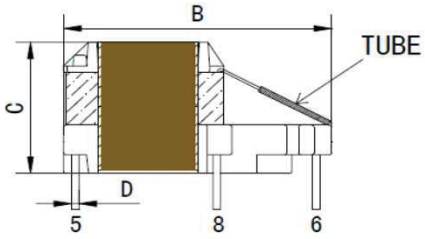


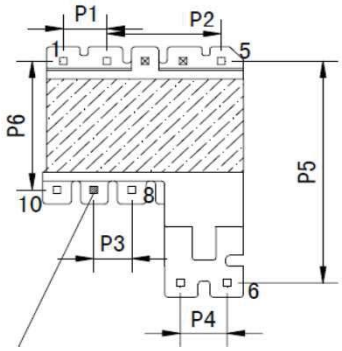
7.0 Illustrations

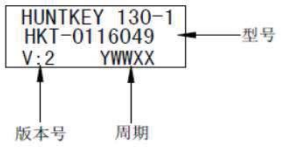
Illustration 13 - Specification of transformer HKT-0116049

Dimensions (unit: mm)



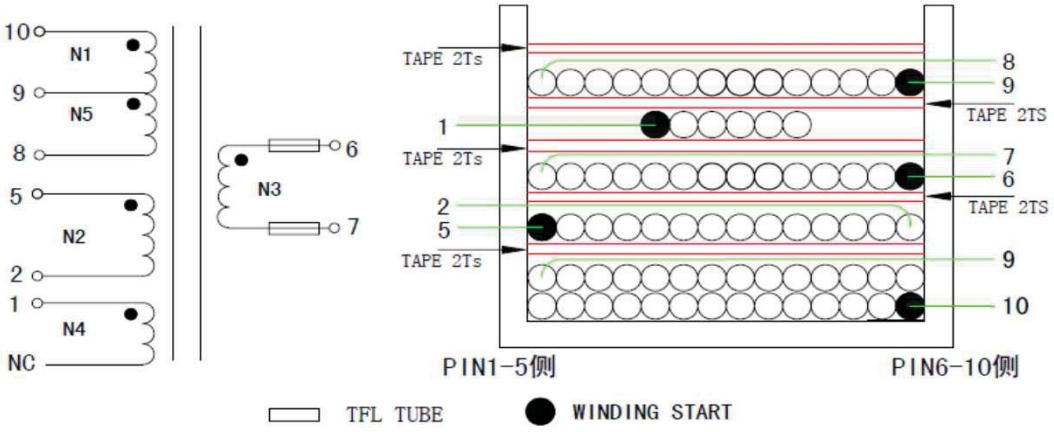






代码	标准值	公差	备注
A	17.5	MAX	长度
B	23.5	MAX	宽度
*C	12.6	MAX	高度
D	0.60*0.60	±0.1	脚径
L	2.5	±0.3	脚长
P1	3.70	±0.2	脚距
P2	9.75	±0.2	脚距
P3	3.25	±0.2	脚距
P4	4.00	±0.2	脚距
P5	20.25	±0.3	排距
P6	11.76	±0.3	排距

Schematic & Configuration



7.0 Illustrations

Illustration 14 - Circuit diagram for surge protection board of model SMD507.

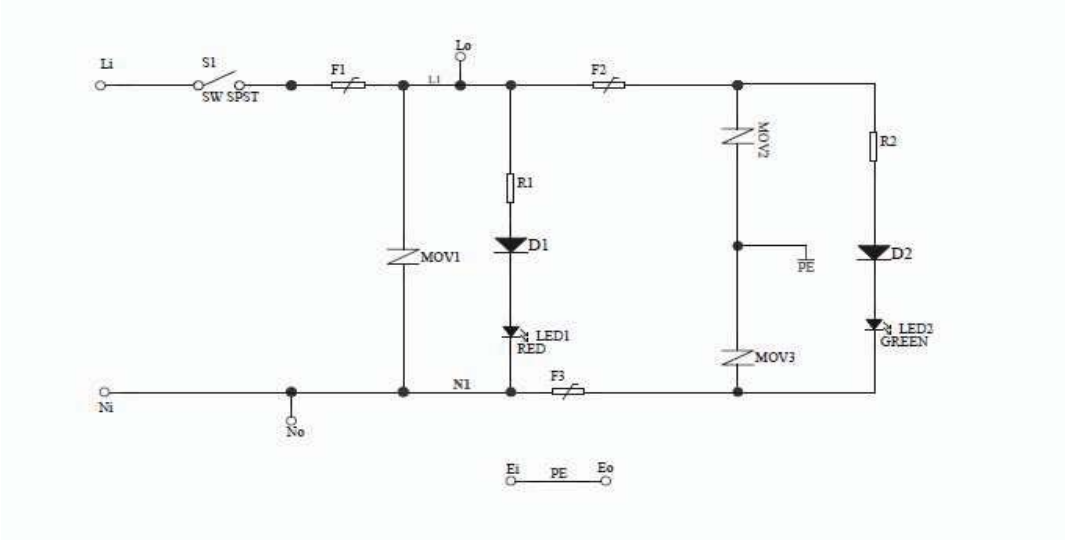
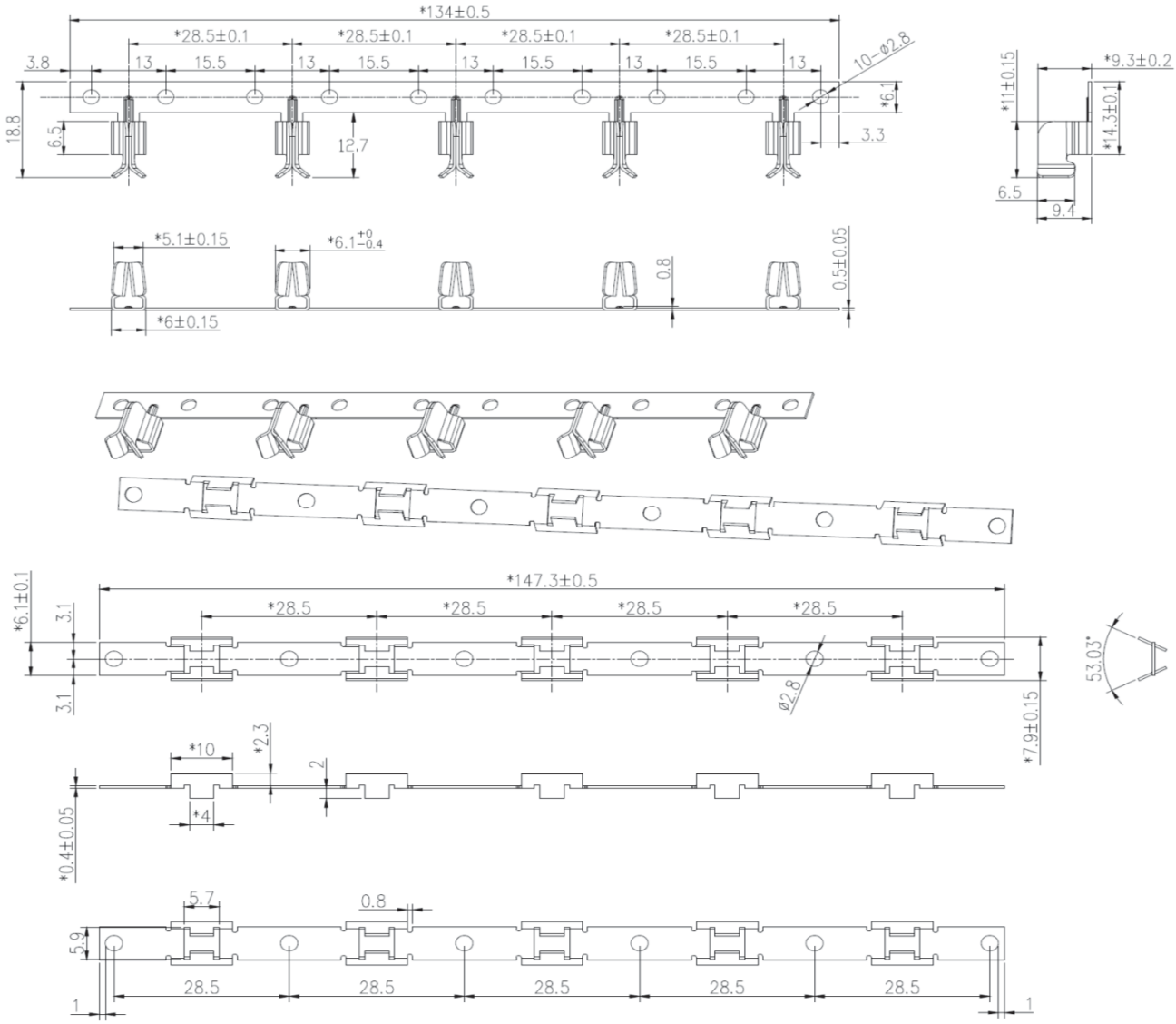
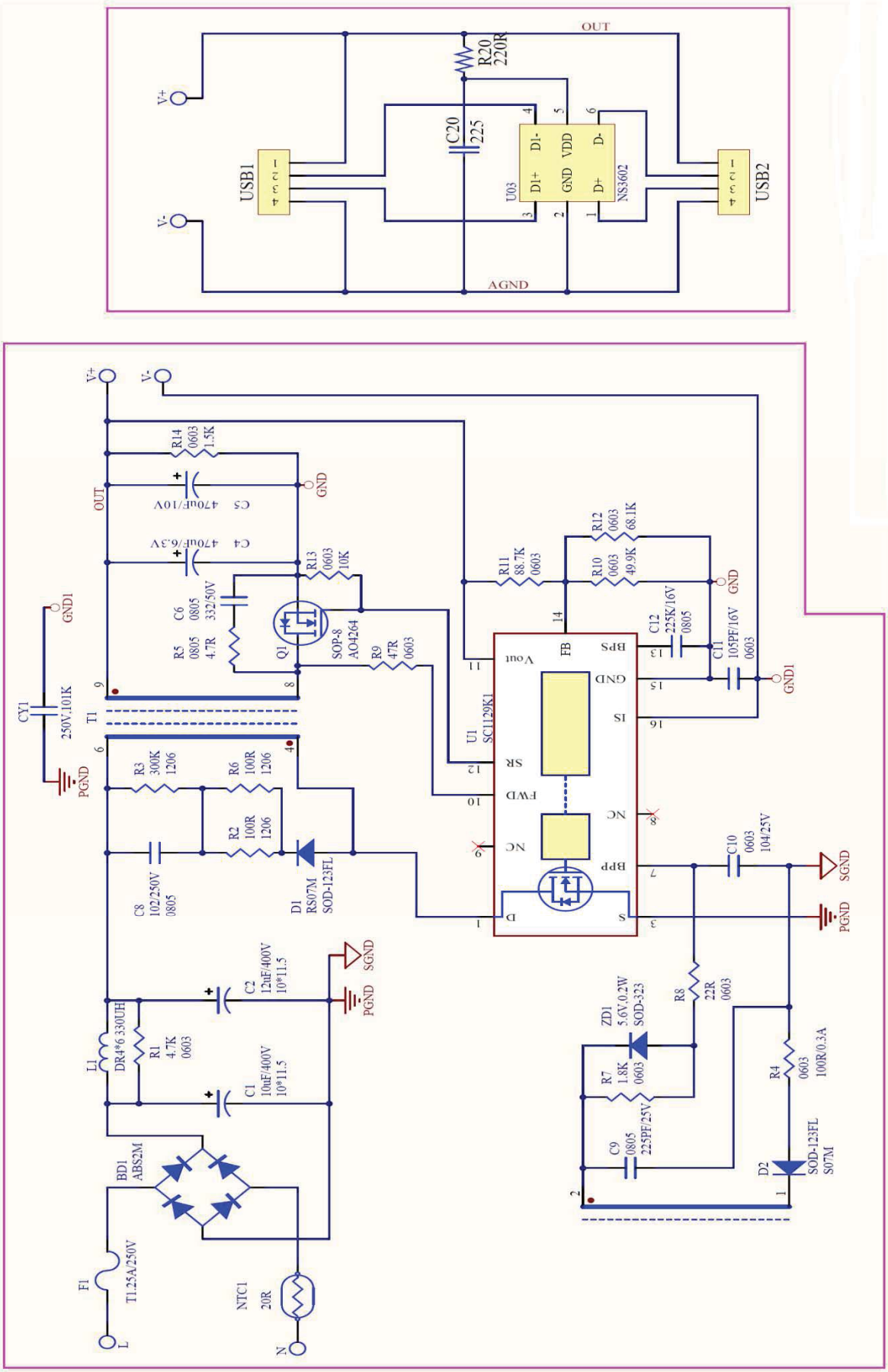


Illustration 15 - Construction drawing of contact bars used on model SMD507



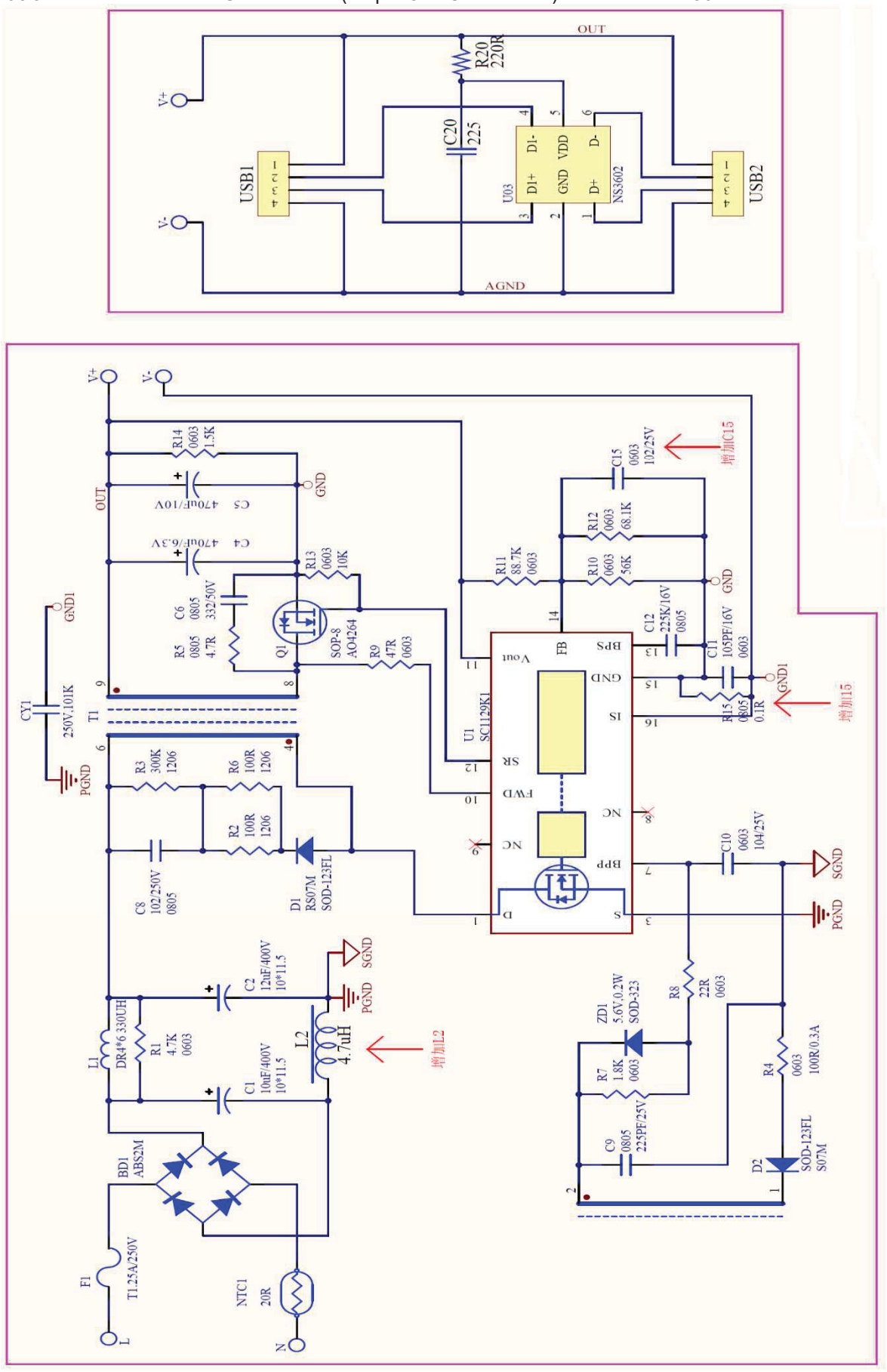
7.0 Illustrations

Illustration 16 - Schematic of USB module (output 5VDC 2.1A total) of model SMD507



7.0 Illustrations

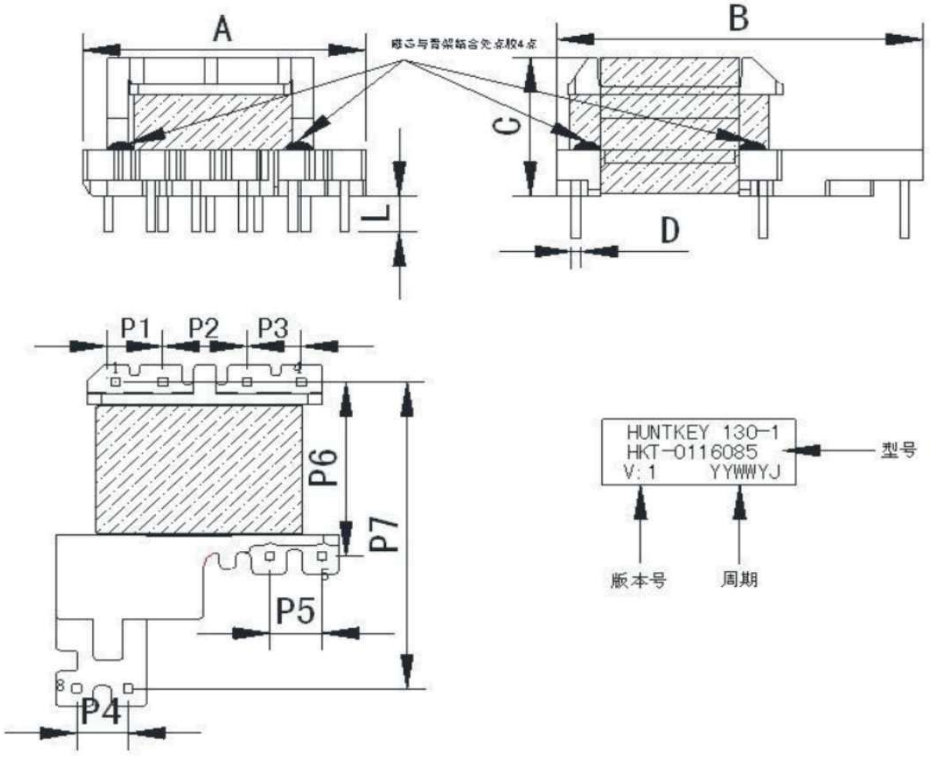
Illustration 17 - Schematic of USB module (output 5VDC 2.4A total) of model SMD507



7.0 Illustrations

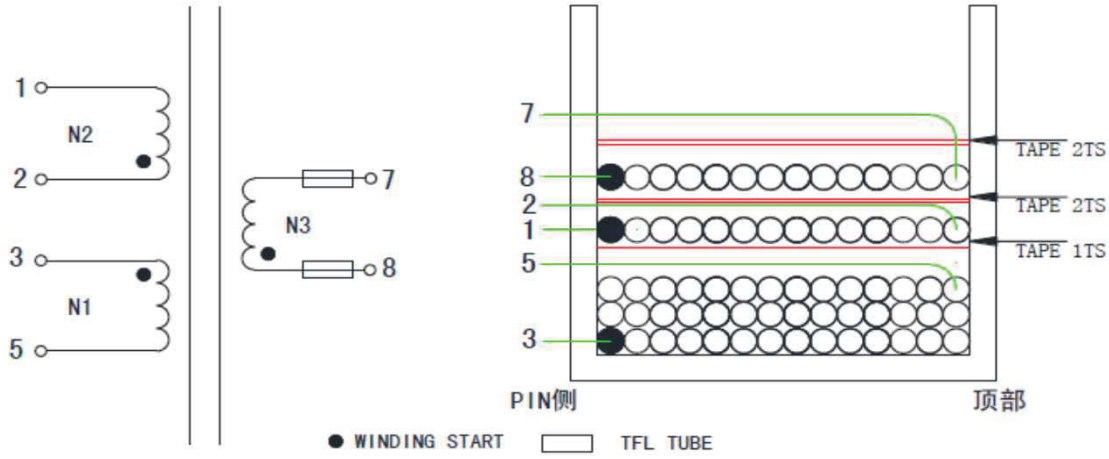
Illustration 18 - Specification of transformer HKT-0116085

Dimensions (unit: mm)



代码	标准值	公差
A	21.2	MAX
B	25.5	MAX
C	11.5	MAX
D	0.6*0.6	±0.1
L	3.0	±0.3
P1	3.3	±0.2
P2	5.75	±0.2
P3	3.70	±0.2
P4	3.55	±0.2
P5	3.60	±0.2
P6	12.75	±0.2
P7	22.40	±0.2

Schematic & Configuration



8.0 Test Summary					
Evaluation Period	4-Jan-2018~20-Jan-2018			Project No.	180103138GZU
Sample Rec. Date	3-Jan-2018	Condition	Prototype	Sample ID.	S180103138-001~012
Test Location	Intertek Testing Services Shenzhen Limited Guangzhou Branch Block E, No. 7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City				
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 1363:2014 Ed.4+R:14Apr2017 Clause	CSA C22.2#308, Issued: 2014/12/01 Clause	UL 1449:2014 Ed.4 +R:21Jul2017 Clause
Temperature Test	27	5.3.6	39
Dielectric Voltage-Withstand Test/Dielectric Strength	28	5.3.3	38
Leakage Current Test	29	5.3.7	--
Grounding Continuity Test	30	--	--
Mounting Hole Barrier Tests	33	--	64
Strain Relief Test	34	--	56
Push-Back Relief Test	--	--	57
Impact Tests/Enclosure Impact Tests	35	5.3.2	61
Crushing Test	36	--	62
Adequacy of Mounting Test	37	--	65
Mold Stress-Relief Distortion Test	40	--	63
Accessibility Tests	--	--	66

Test Description	UL 498:2017 Ed.16+R:28Jul2017 Clause	CSA C22.2#42:2010 Ed.7+U1;U2;U3 Clause	UL 60950-1:2007 Ed.2:14Oct2014 & CSA C22.2# 60950-1:2007 Ed.2+A1;A2 Clause
Configurations Check	7	5	--
Retention of Plugs Tests	114	8.7	--
Overload Tests	115	8.8	--
Temperature Test	116	8.9	--
Retention of Plugs Tests (repeated)	117	8.10	--
Resistance to Arcing Test	118	8.17	--
Grounding Contact Test	123	8.16	--
Protection from electric shock and energy hazards	--	--	2.1
Voltage under Normal Conditions Test	--	--	2.2.2
Voltage under Fault Conditions Test	--	--	2.2.3
Limited Current Circuits Test	--	--	2.4
Limited Power Sources Test	--	--	2.5
Humidity Condition Test	--	--	2.9.2
Clearances, creepage distances and distances through insulation	--	--	2.10
Mechanical Strength	--	--	4.2
Normal Operating Test	--	--	4.5.2
Touch Current Test	--	--	5.1
Electric Strength Test	--	--	5.2
Abnormal Operations and Fault Conditions Test	--	--	5.3

8.0 Test Summary					
Sample Rec. Date	5-Jan-2018	Condition	Prototype	Sample ID.	No. 1 - No. 28
Test Location	Guangdong U.K Standard Testing Co., Ltd. Building E, Nanpu Technology Innovation Center, Banshi Village, Changping Town, Dongguan City, Guangdong Province, 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 1449:2014 Ed.4 +R:21Jul2017 Clause	--	--
Leakage Current Test	37	--	--
Surge Testing	40	--	--
Operational Voltage Test	43	--	--
Current Testing	44	--	--
Grounding Continuity Test	48	--	--

Evaluation Period	25-Feb-2018~20-Mar-2018			Project No.	180205161GZU
Sample Rec. Date	23-Feb-2018	Condition	Prototype	Sample ID.	S180205161-001~012
Test Location	Intertek Testing Services Shenzhen Limited Guangzhou Branch Block E, No. 7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City				
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 1363:2014 Ed.4+R:14Apr2017 Clause	CSA C22.2#308, Issued: 2014/12/01 Clause	UL 1449:2014 Ed.4 +R:21Jul2017 Clause
Temperature Test	27	5.3.6	39
Dielectric Voltage-Withstand Test/Dielectric Strength	28	5.3.3	38
Leakage Current Test	29	5.3.7	--
Grounding Continuity Test	30	--	--
Mounting Hole Barrier Tests	33	--	64
Strain Relief Test	34	--	56
Push-Back Relief Test	--	--	57
Impact Tests/Enclosure Impact Tests	35	5.3.2	61
Crushing Test	36	--	62
Adequacy of Mounting Test	37	--	65
Mold Stress-Relief Distortion Test	40	--	63
Accessibility Tests	--	--	66

8.0 Test Summary

Test Description	UL 498:2017 Ed.16+R:28Jul2017 Clause	CSA C22.2#42:2010 Ed.7+U1;U2;U3 Clause	UL 60950-1:2007 Ed.2 R:14Oct2014 & CSA C22.2# 60950-1:2007 Ed.2+A1;A2 Clause
Configurations Check	7	5	--
Retention of Plugs Tests	114	8.7	--
Overload Tests	115	8.8	--
Temperature Test	116	8.9	--
Retention of Plugs Tests (repeated)	117	8.10	--
Resistance to Arcing Test	118	8.17	--
Grounding Contact Test	123	8.16	--
Protection from electric shock and energy hazards	--	--	2.1
Voltage under Normal Conditions Test	--	--	2.2.2
Voltage under Fault Conditions Test	--	--	2.2.3
Limited Current Circuits Test	--	--	2.4
Limited Power Sources Test	--	--	2.5
Humidity Condition Test	--	--	2.9.2
Clearances, creepage distances and distances through insulation	--	--	2.10
Mechanical Strength	--	--	4.2
Normal Operating Test	--	--	4.5.2
Touch Current Test	--	--	5.1
Electric Strength Test	--	--	5.2
Abnormal Operations and Fault Conditions Test	--	--	5.3

Sample Rec. Date	15-Mar-2018	Condition	Prototype	Sample ID.	No. 1 - No. 28
Test Location	Guangdong U.K Standard Testing Co., Ltd. Building E, Nanpu Technology Innovation Center, Banshi Village, Changping Town, Dongguan City, Guangdong Province, 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 1449:2014 Ed.4 +R:21Jul2017 Clause	--	--
Leakage Current Test	37	--	--
Surge Testing	40	--	--
Operational Voltage Test	43	--	--
Current Testing	44	--	--
Grounding Continuity Test	48	--	--

8.0 Test Summary					
Evaluation Period	25-Apr-2018~07-May-2018			Project No.	180424156GZU
Sample Rec. Date	24-Apr-2018	Condition	Prototype	Sample ID.	S180424156-001~012
Test Location	Intertek Testing Services Shenzhen Limited Guangzhou Branch Block E, No. 7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City				
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 1363:2014 Ed.4+R:14Apr2017 Clause	CSA C22.2#308, Issued: 2014/12/01 Clause	UL 1449:2014 Ed.4 +R:21Jul2017 Clause
Temperature Test	27	5.3.6	39
Dielectric Voltage-Withstand Test/Dielectric Strength	28	5.3.3	38
Leakage Current Test	29	5.3.7	--
Grounding Continuity Test	30	--	--
Mounting Hole Barrier Tests	33	--	64
Strain Relief Test	34	--	56
Push-Back Relief Test	--	--	57
Impact Tests/Enclosure Impact Tests	35	5.3.2	61
Crushing Test	36	--	62
Adequacy of Mounting Test	37	--	65
Mold Stress-Relief Distortion Test	40	--	63
Accessibility Tests	--	--	66

Test Description	UL 498:2017 Ed.16+R:28Jul2017 Clause	CSA C22.2#42:2010 Ed.7+U1;U2;U3 Clause	UL 60950-1:2007 Ed.2:14Oct2014 & CSA C22.2# 60950-1:2007 Ed.2+A1;A2 Clause
Configurations Check	7	5	--
Retention of Plugs Tests	114	8.7	--
Overload Tests	115	8.8	--
Temperature Test	116	8.9	--
Retention of Plugs Tests (repeated)	117	8.10	--
Resistance to Arcing Test	118	8.17	--
Grounding Contact Test	123	8.16	--
Protection from electric shock and energy hazards	--	--	2.1
Voltage under Normal Conditions Test	--	--	2.2.2
Voltage under Fault Conditions Test	--	--	2.2.3
Limited Current Circuits Test	--	--	2.4
Limited Power Sources Test	--	--	2.5
Humidity Condition Test	--	--	2.9.2
Clearances, creepage distances and distances through insulation	--	--	2.10
Mechanical Strength	--	--	4.2
Normal Operating Test	--	--	4.5.2
Touch Current Test	--	--	5.1
Electric Strength Test	--	--	5.2
Abnormal Operations and Fault Conditions Test	--	--	5.3

8.0 Test Summary					
Sample Rec. Date	25-Apr-2018	Condition	Prototype	Sample ID.	No. 1 - No. 28
Test Location	Guangdong U.K Standard Testing Co., Ltd. Building E, Nanpu Technology Innovation Center, Banshi Village, Changping Town, Dongguan City, Guangdong Province, 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 1449:2014 Ed.4 +R:21Jul2017 Clause	--	--
Leakage Current Test	37	--	--
Surge Testing	40	--	--
Operational Voltage Test	43	--	--
Current Testing	44	--	--
Grounding Continuity Test	48	--	--

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.			
Completed by:	Steven Liang	Reviewed by:	Sunny Tang / Spark He
Title:	Engineer	Title:	Reviewer
Signature:		Signature:	

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	Shenzhen Huntkey Electric Co., Ltd.
Address	EF Area, 4F of 1#Bld, Huntkey Industrial Park, XueXiang Village, Bantian Street, LONGGANG DISTRICT, SHENZHEN CITY Guangdong 518129
Country	China
Product	Relocatable power tap

MULTIPLE LISTEE 1	ACCO Brands USA LLC
Address	1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404
Country	USA
Brand Name	Kensington
ASSOCIATED MANUFACTURER	Shenzhen Huntkey Electronics Co., Ltd
Address	ABCD Area, 4F of 1#Bldg, Huntkey Industrial Park, XueXiang Village, Bantian Street, LONGGANG DISTRICT, SHENZHEN CITY Guangdong 518129
Country	CHINA

MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
M01401	SMD121

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 issue 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.

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.

Note to Intertek Follow Up Inspector: The Component Evaluation Center, CEC, will notify you in writing when these components must be selected and sent to the CEC for re-evaluation

Ship the samples to:
Intertek Testing Services Shenzhen Limited Guangzhou Branch
ETL Component Evaluation Center
Block E, No. 7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City

CETDD Guangzhou, China.
Attn: Ms. Joey Kuang
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

Dielectric Voltage Withstand Test
Grounding Continuity Test

11.1 Dielectric Voltage Withstand Test

Method

The test shall be conducted when the RPT is complete (fully assembled). It is not intended that the RPT be unwired, modified, or disassembled for the test.

The test equipment when adjusted for production-line testing, is to produce an output voltage that is not less than the factory test value specified, nor is the magnitude of the test voltage to be greater than 120 percent of the specified test potential when the tester is used in each of the following conditions:

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

a) When the test duration is 1 s, the output voltage is to be maintained within the specified range when:
1) Only a voltmeter having an input impedance of at least 2 M ohms and a specimen of the product being tested are connected to the output terminals and
2) A relatively high resistance is connected in parallel with the voltmeter and the product being tested, and the value of the resistance is gradually reduced to the point where an indication of unacceptable performance just occurs.

b) When the test duration is 1 min, the output voltage is to be maintained within the specified range (by manual or automatic means) throughout the 1-min duration of the test or until there is an indication of unacceptable performance.

The specified control of the applied voltage, manual or automatic, shall be maintained under conditions of varying line voltage. Higher test potentials are not prohibited from being used when the higher dielectric stress does not adversely affect the insulating systems of the product.

Test Equipment

In addition to the characteristics indicated above, the test equipment is to have the following features and characteristics:

a) A means of indicating the test voltage that is being applied to the appliance under test. This is accomplished by sensing the voltage at the test leads or by an equivalent means.

b) An output voltage that has a sinusoidal waveform, a frequency that is within the range of 40 – 70 Hz, and a peak value of the waveform that is not to be less than 1.3 and not more than 1.5 times the root-mean-square value.

c) A means of effectively indicating unacceptable performance. The indication is to be:

1) Auditory, when it can be readily heard above the background noise level;
2) Visual, when it commands the attention of the operator; or
3) A device that automatically rejects an unacceptable product. When the indication of unacceptable performance is auditory or visual, the indication is to remain active and conspicuous until the test equipment is reset manually.

d) When the test equipment is adjusted to produce the test voltage, and a resistance of 120,000 Ω is connected across the output, the test equipment is to indicate an unacceptable performance within 0.5 s. A Exception: The sensitivity of the test equipment – and a lower value of resistance – is not prohibited from being used when testing an appliance intended to be permanently wired.

There shall not be any transient voltage applied to the RPT under test that results in the instantaneous voltage applied to the RPT exceeding 120 percent of the peak value of the test voltage that the manufacturer elects to use for this test. This requirement applies for the entire duration of the test, including the time that the voltage is first applied to the RPT and the time that the voltage is removed from the RPT.

Products Requiring Dielectric Voltage Withstand Test:

Product	Test Voltage	Test Time
All products covered by this Report.	1250V AC/ 1768V DC	60 s
	or	
	1500V AC/ 2121V DC	1 s

11.2 Grounding Continuity Test

Method

Each RPT shall be tested, as a routine production-line test, to determine grounding continuity between the grounding pin or terminal of the attachment plug and the accessible, dead-metal parts of the RPT that become energized. The grounding contact of each receptacle, grounding pin of a supply-cord attachment plug, and other means for grounding on the load side are included in this test.

Test Equipment

Compliance with above is determined by any appropriate device, such as an ohmmeter or a battery and buzzer combination, applied between the point of connection of the RPT grounding means and the metal parts in question.

Products Requiring Grounding Continuity Test:

All products covered by this Report.

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
7-Apr-2018 180205161GZU	Steven Liang / Sunny Tang Spark He	1.0	--	Added the revised date
		2.0	--	Added the new model SMD807.
		3.0	14~22	Added the photos for the new model SMD807.
		4.0	25	deleted the Critical Components of label.
		4.0	25~35 f	Added the Critical Components for the new model SMD807.
		4.0	36	Added the Critical Components of label.
		6.0	9	Revise the Sec 4 item no. from "25" to "36".
		6.0	10	Delete the graphic of Cautionary Markings.
		7.0	--	Added the Illustrations 10~13 for the new model SMD807.
		8.0	--	Add the new test summary for model SMD807 and re-approval.
14-May-2018 180424156GZU	Steven Liang / Sunny Tang Spark He	1.0	--	Added the revised date
		2.0	--	Added model and Other Ratings of new model SMD507.
		3.0	23~32	Added the photos for the new model SMD507.
		4.0	3	Updated the critical component of Contact bars.
		4.0	36	deleted the Critical Components of label.
		4.0	36~47	Added the Critical Components for new model SMD507.
		4.0	48	Added the Critical Components of label.
		6.0	8	Revised the Sec 7 Illustrations no. from "13" to "18".
		6.0	9	Revised the Sec 4 item no. from "36" to "48".
		7.0	--	Added the Illustrations 14~18 for the new model SMD507.
		8.0	--	Add the new test summary for model SMD507 and re-approval.