1.0 Reference and Address			
Report Number	180301432SHA-001	Original Issued: 20-Feb-2019	Revised: None
Standard(s)	Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2014 Ed.2] Audio/Video, Information And Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2014 Ed.2]		
Applicant	GlobTek, Inc.	Manufacturer	**GlobTek (Suzhou) Co., Ltd.**
Address	186 VETERANS DRIVE NORTHVALE NJ 07647	Address	Building 4 No. 76 JinLing East Road Suzhou Industrial Park SUZHOU Jiangsu 215021
Country	USA	Country	CHINA
Contact	HANS Moritz	Contact	Demon Zhou
Phone	(201)784-1000 ext253	Phone	+86-0512-62790301 Ext189
FAX	(201)784-0111	FAX	+86-0512-62790355
Email	Moritzh@globtek.com	Email	demon.zhou@globtek.cn

2.0 Product Description	
Product	ITE POWER SUPPLY
Brand name	GlobTek® ,Inc. www.globtek.com (GlobTek)
Description	Product covered by this report is ITE power supply module.It is for Limited Power Source (LPS) application. Direct plug-in power supplies are provided with suitable external enclosure. The external enclosure and plug holder parts of the enclosure are ultrasonic welded. The power supplies are rated class II equipment. All models were evaluated for maximum manufacturer's recommended ambient of 40 °C.
Models	GT followed by M, - or H; followed by 86100-; followed by 01 to 10; followed by 05, 05.1, 05.2, 5.0,5.1 or 5.2; followed by -W2; may be followed by -USB.
Model Similarity	Followed by 'M' or '-' or 'H' for market identification and not related to safety. Followed by "01" to "10" denotes the rated output wattage designation, with interval of 1W. Followed by "5.0","5.1","5.2" or "05", "05.1", "05.2" denotes the rated output voltage designation. May be followed by "–USB",- USB denote the power supplies use USB port. When it is blank, denote the power supplies use DC output wires. All models have the similar circuit schematic, components, critical components and also the similar construction. The difference is minor secondary circuit, output ratings and output wires. Models GTM86100-1005-W2-USB and GTM86100-1005-W2 are tested as typical models, model differences were also considered in this report.
Ratings	Input：100-240V~,50-60Hz,0.3A Output: 5-5.2VDC, Max.2A
Other Ratings	N/A

3.0 Product Photographs

Photo 1 - GTM86100-1005-W2-USB External view

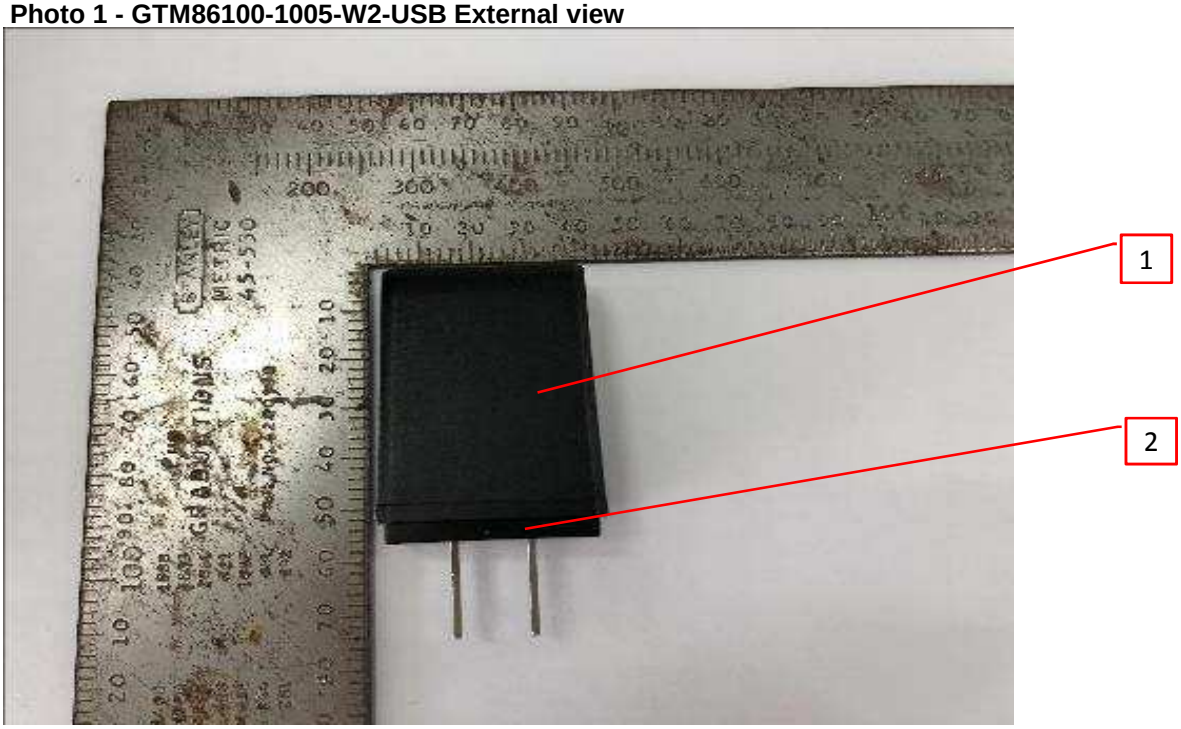
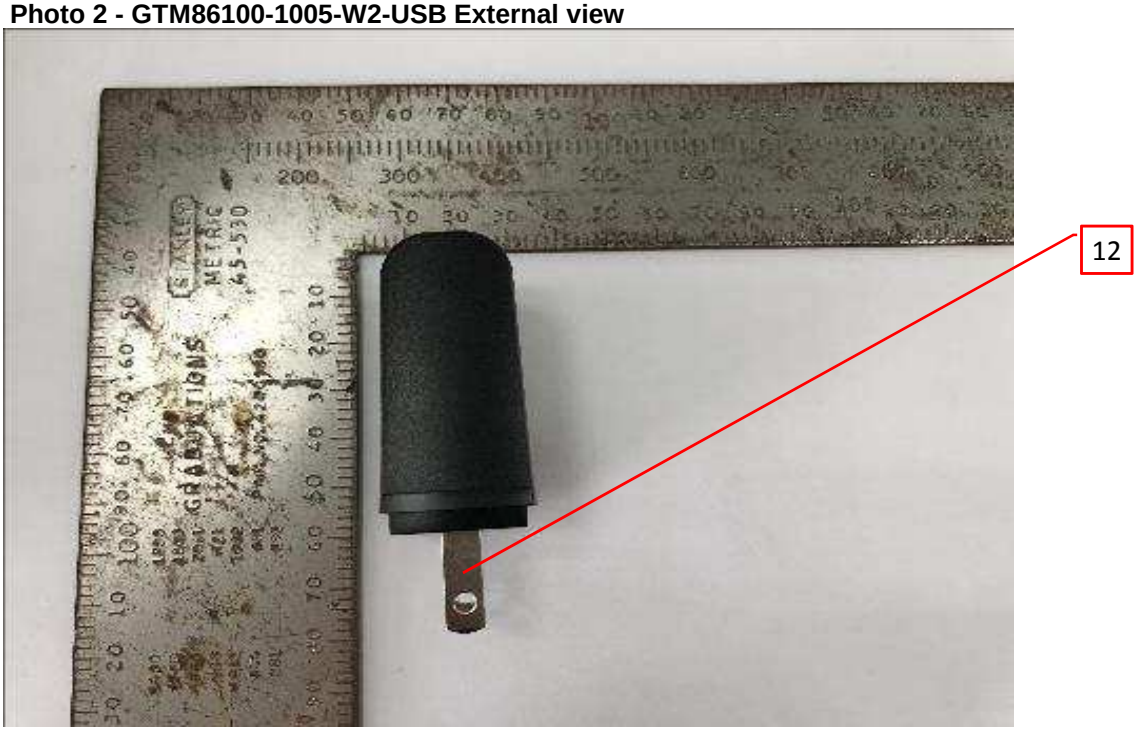


Photo 2 - GTM86100-1005-W2-USB External view



3.0 Product Photographs

Photo 3 -GTM86100-1005-W2-USB Internal view

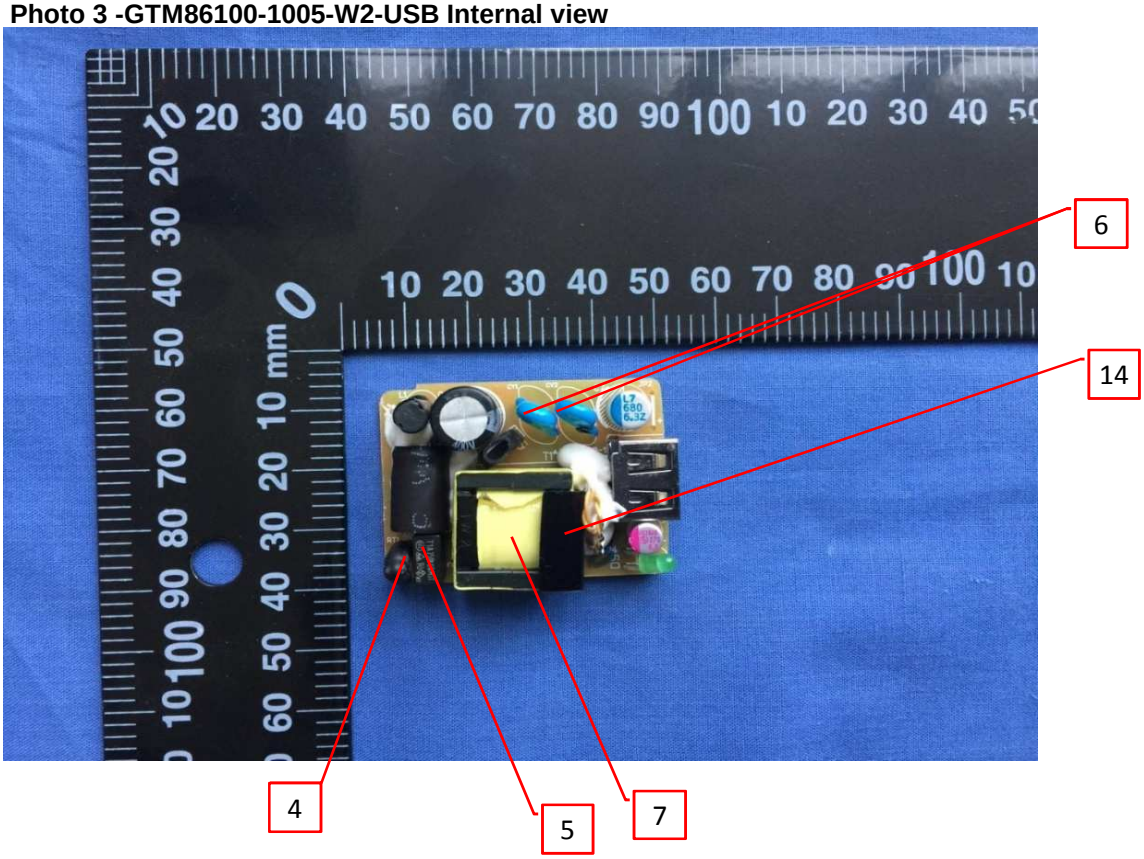
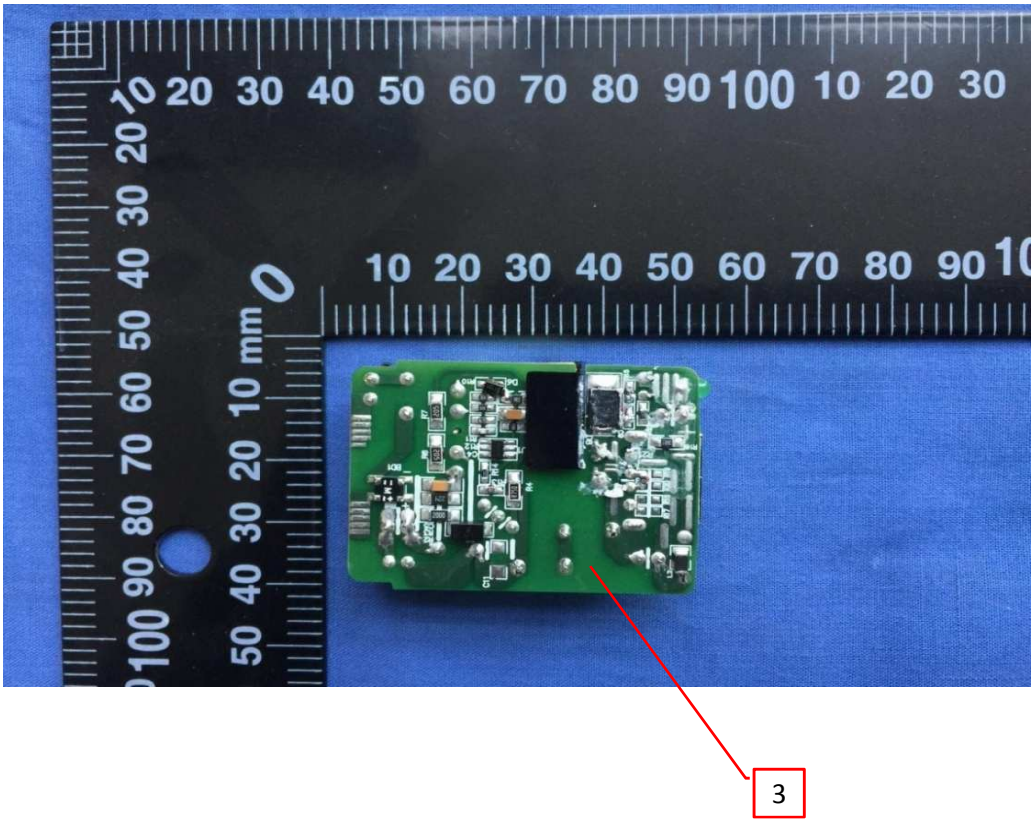


Photo 4 -GTM86100-1005-W2-USB Internal view



3.0 Product Photographs

Photo 5 -External view of transformer

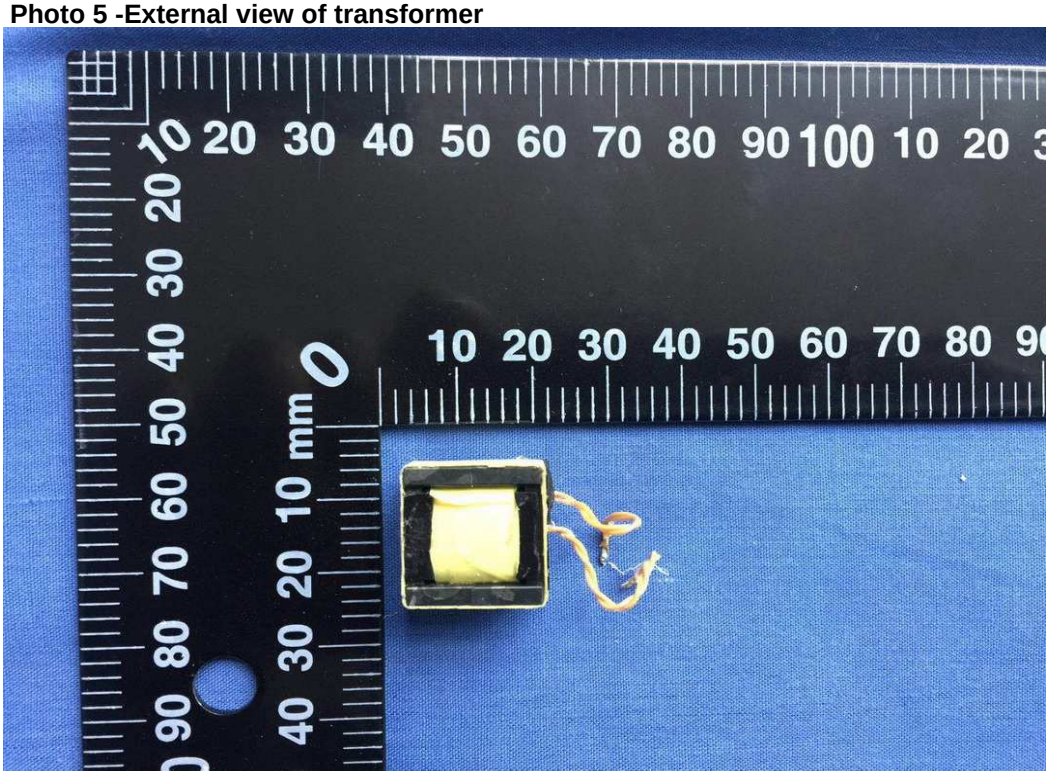
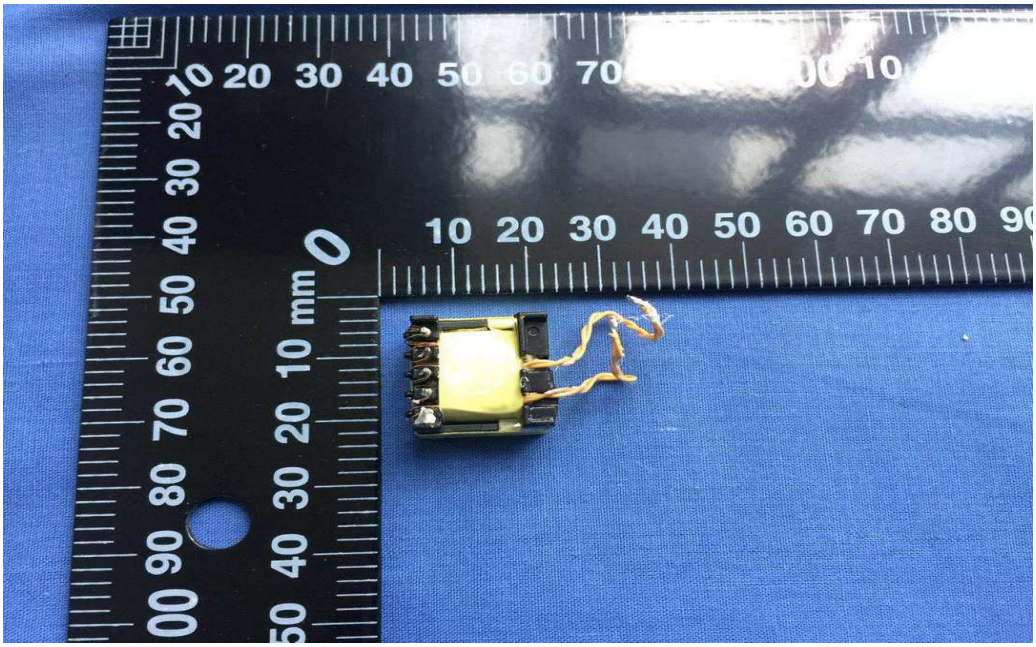


Photo 6 -External view of transformer



3.0 Product Photographs

Photo 7 - transformer

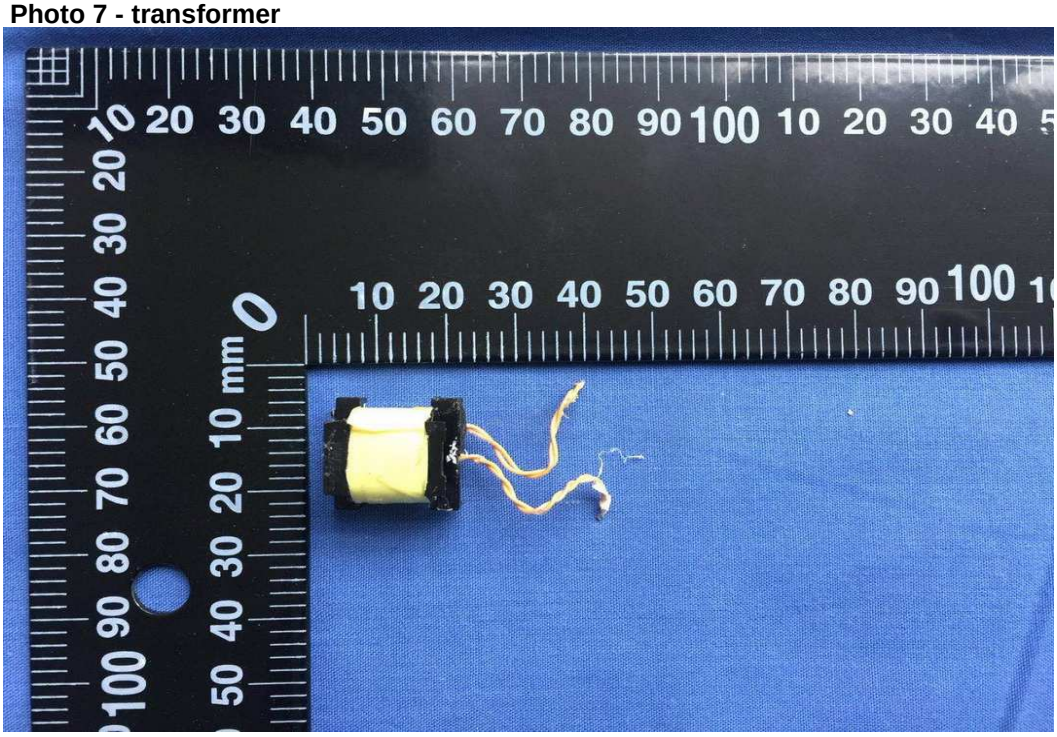
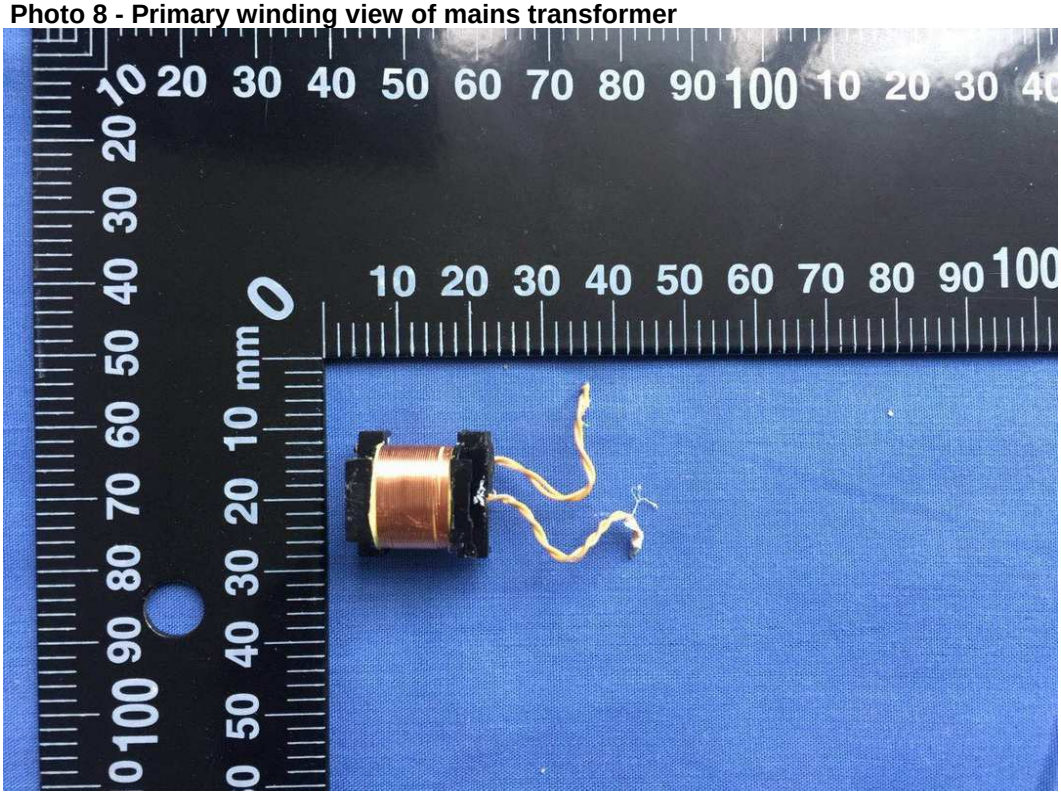


Photo 8 - Primary winding view of mains transformer



3.0 Product Photographs

Photo 9 - Secondary winding view of mains transformer (TIW)

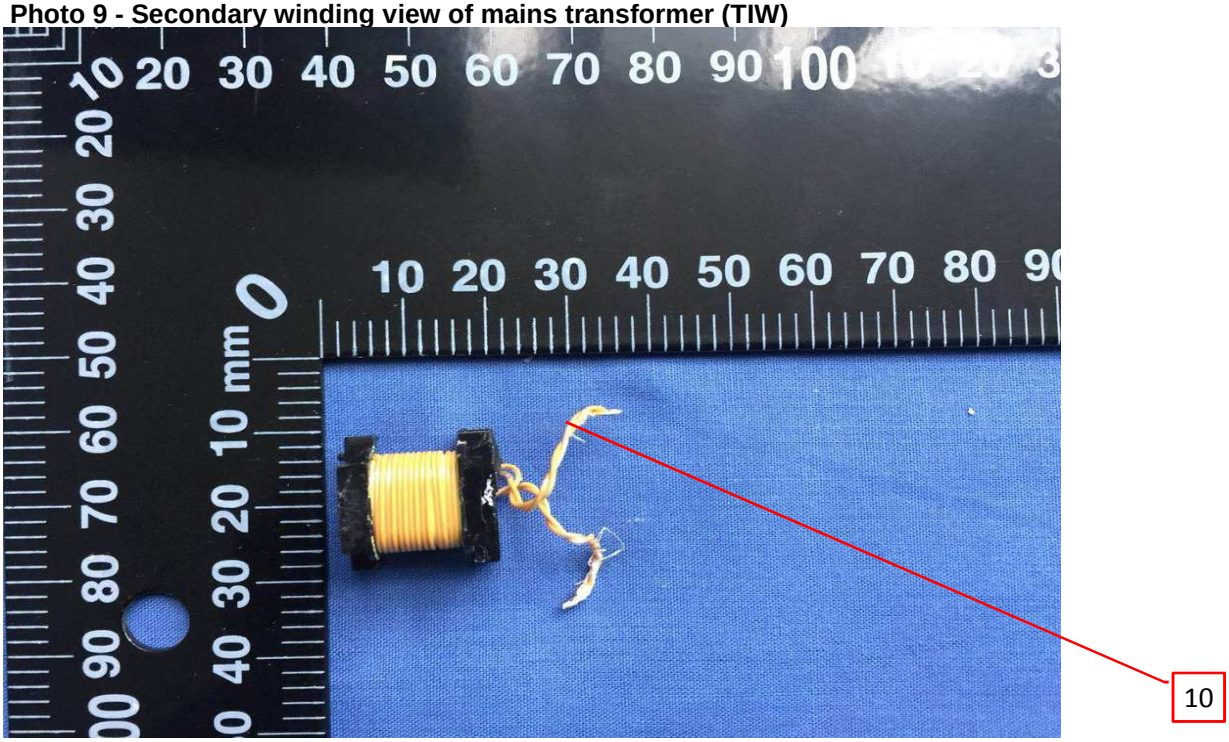
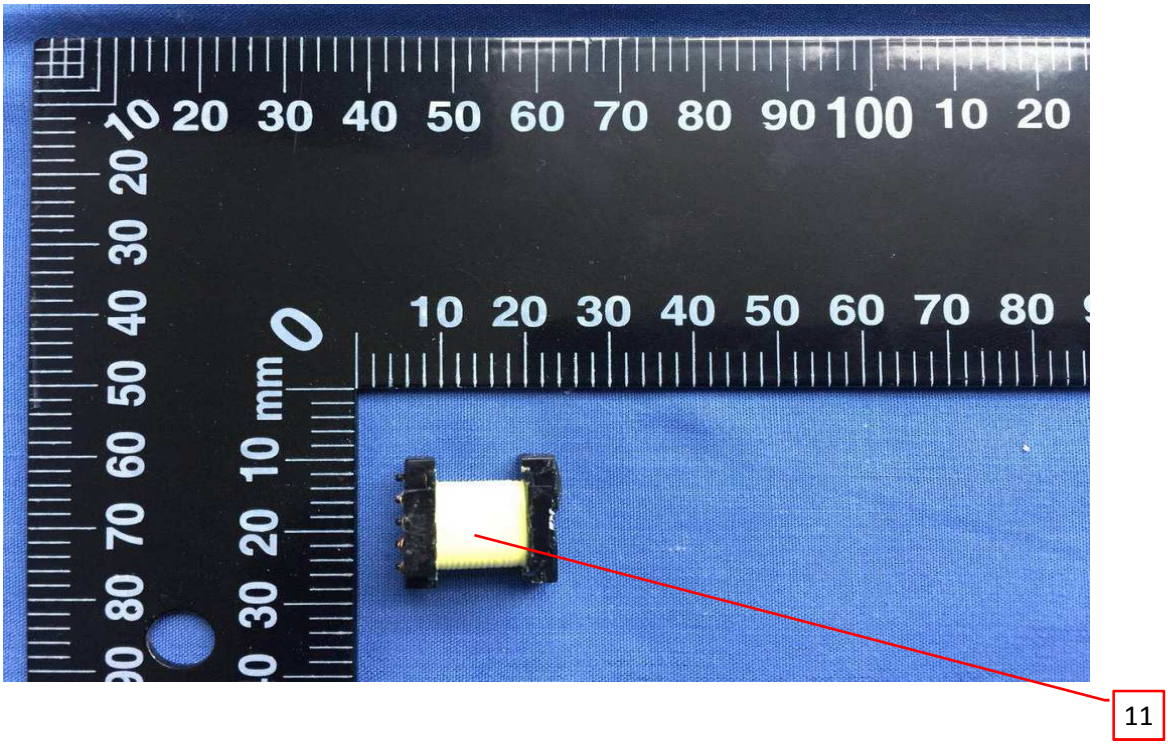


Photo 10 - Transformer



3.0 Product Photographs

Photo 11 - Transformer

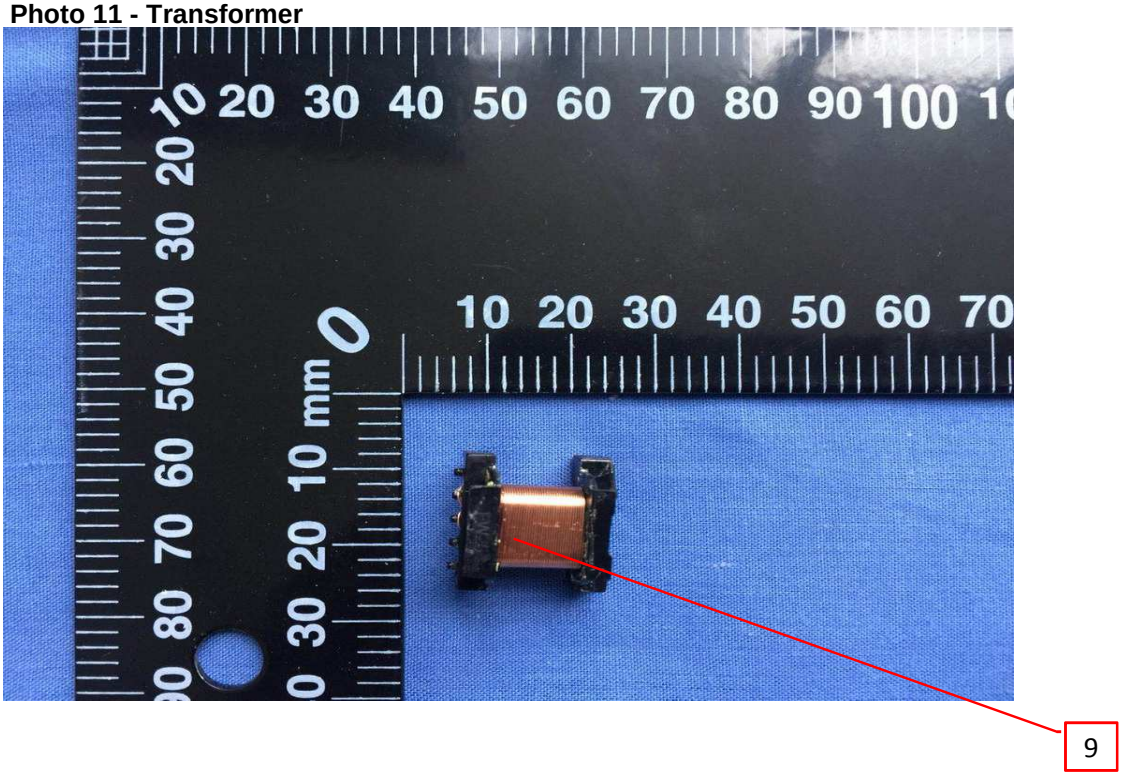
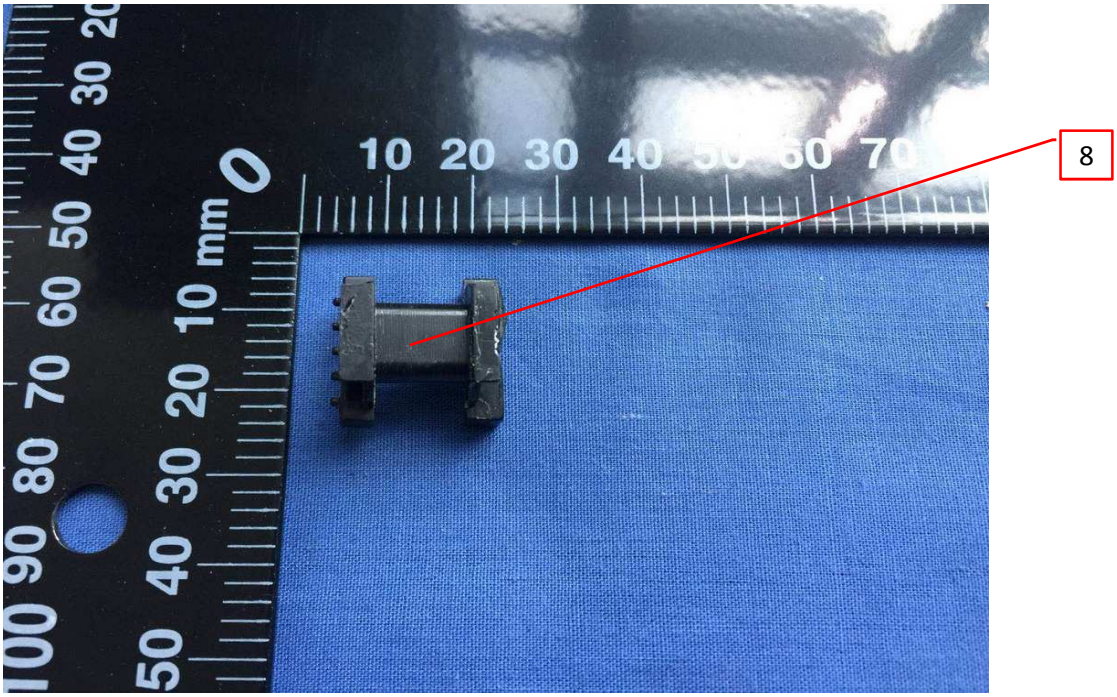


Photo 12 - Bobbin view of transformer



3.0 Product Photographs

Photo 13 - GTM86100-1005-W2 External view

Photo 14 - GTM86100-1005-W2 External view

3.0 Product Photographs

Photo 15 - GTM86100-1005-W2 Internal view

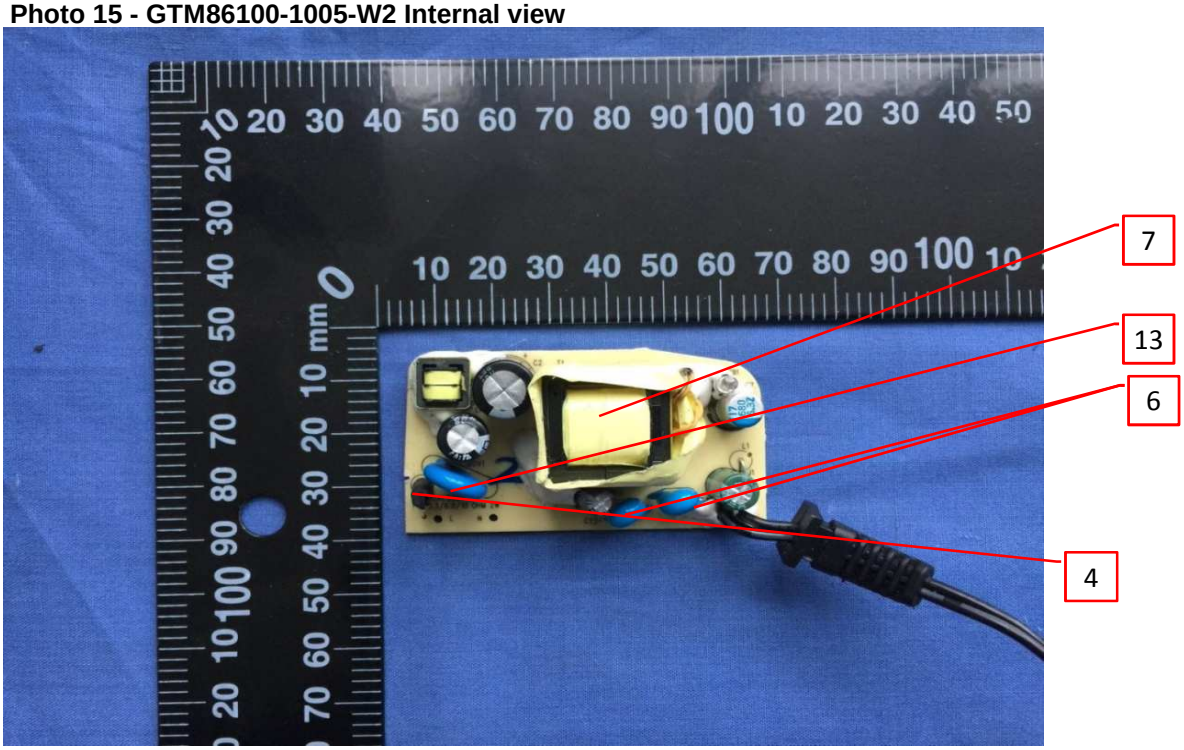
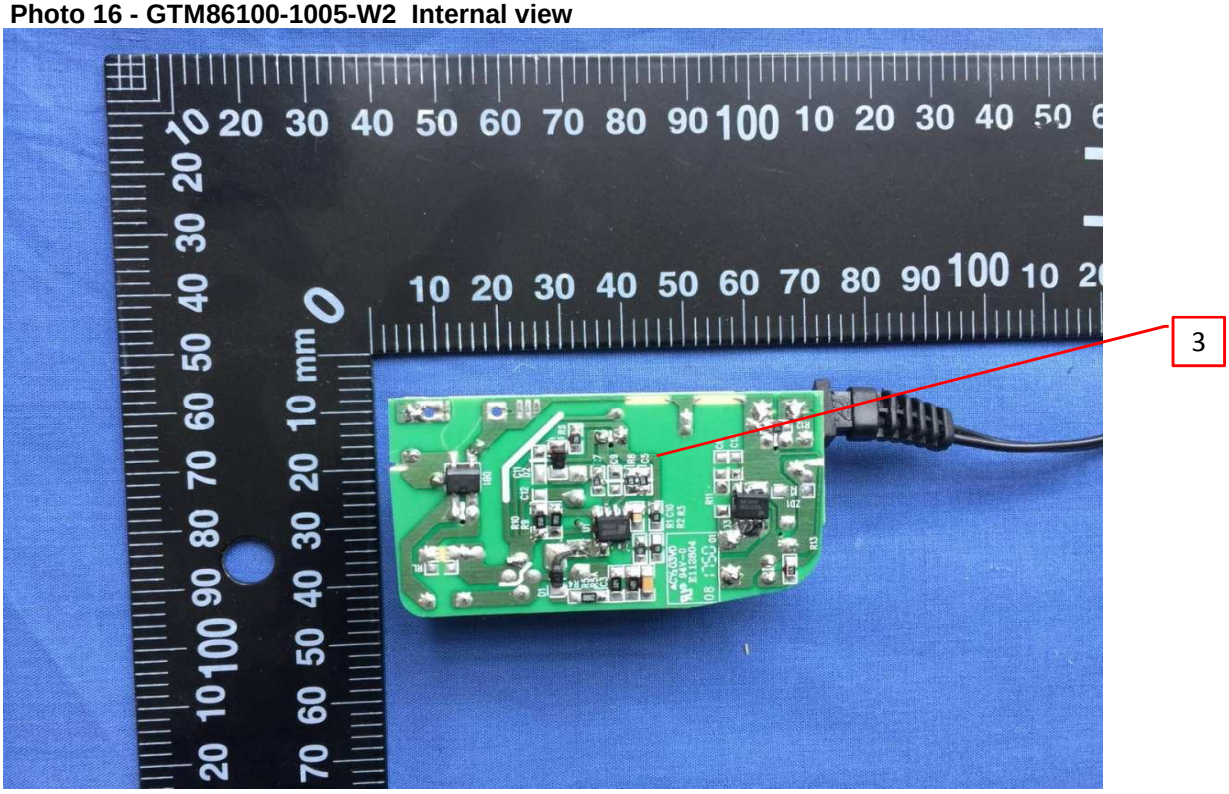


Photo 16 - GTM86100-1005-W2 Internal view



3.0 Product Photographs

Photo 17 - External view of transformer

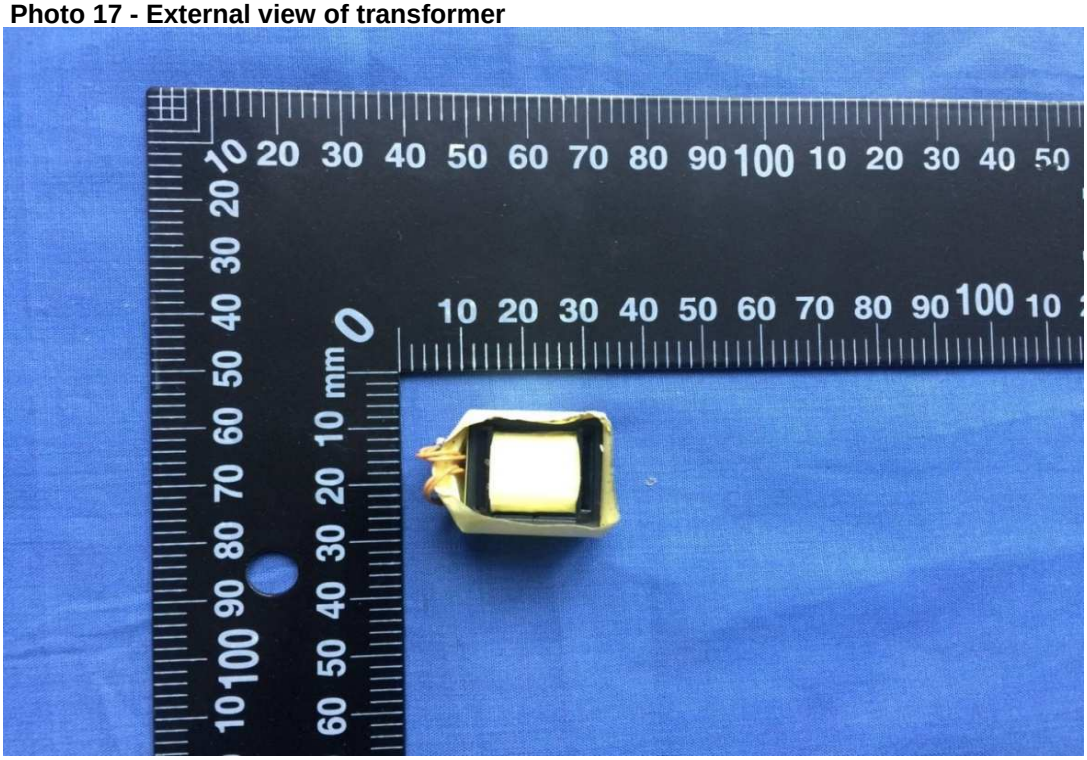
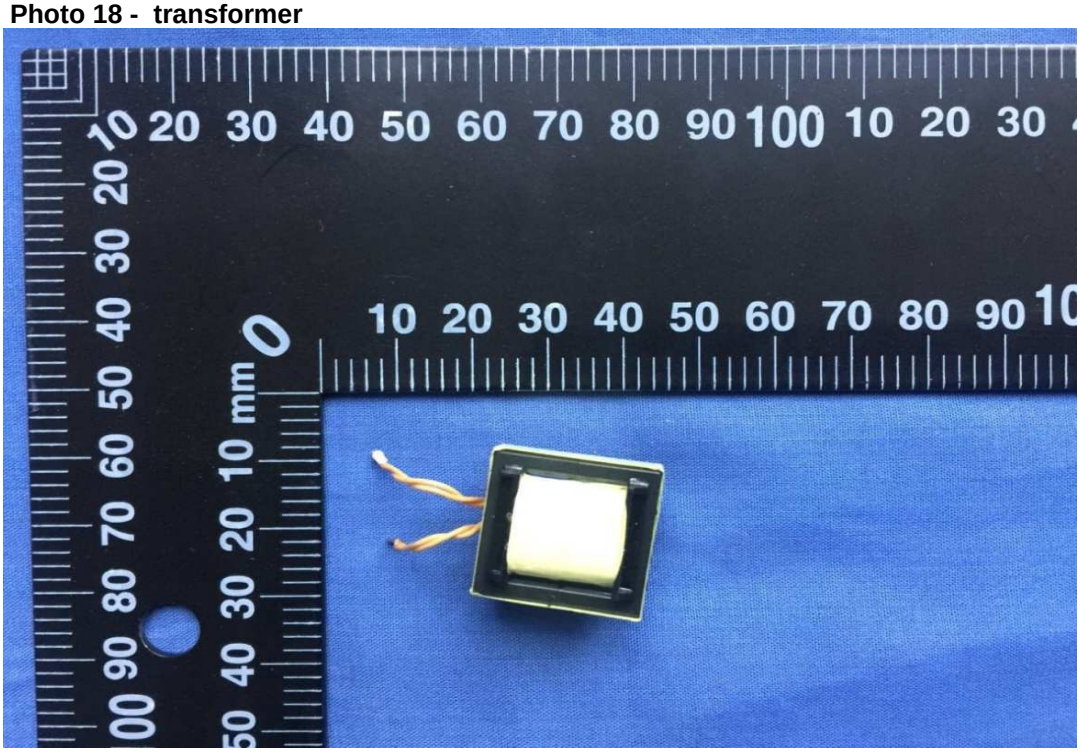


Photo 18 - transformer



3.0 Product Photographs

Photo 19 - transformer

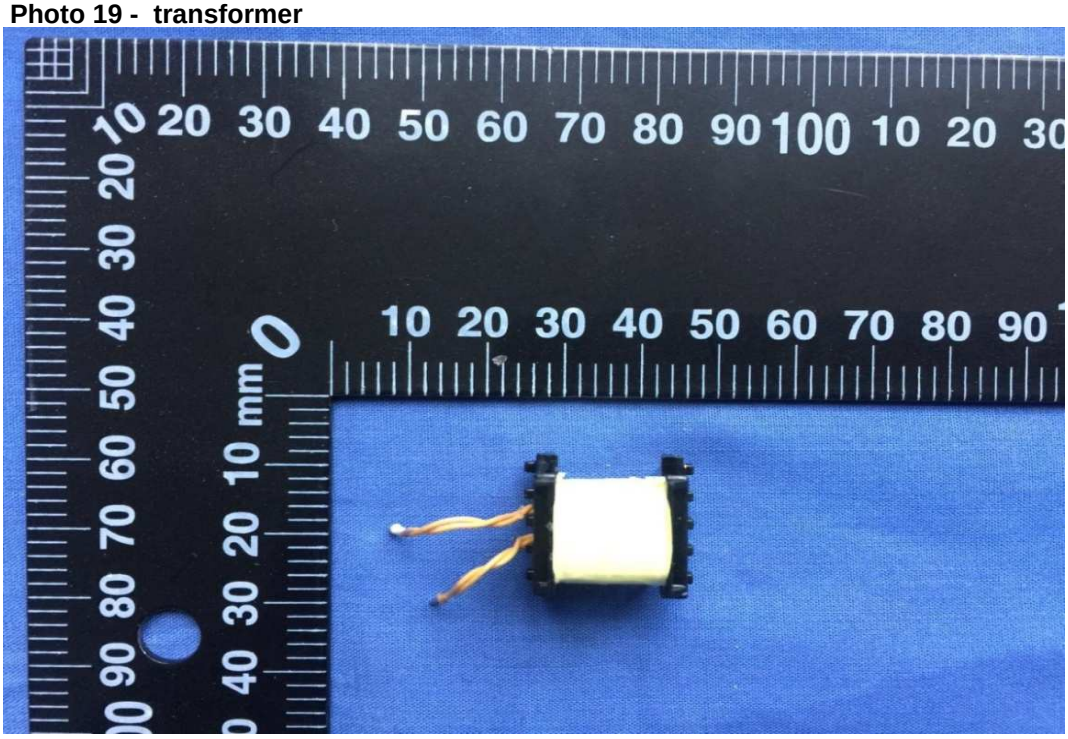
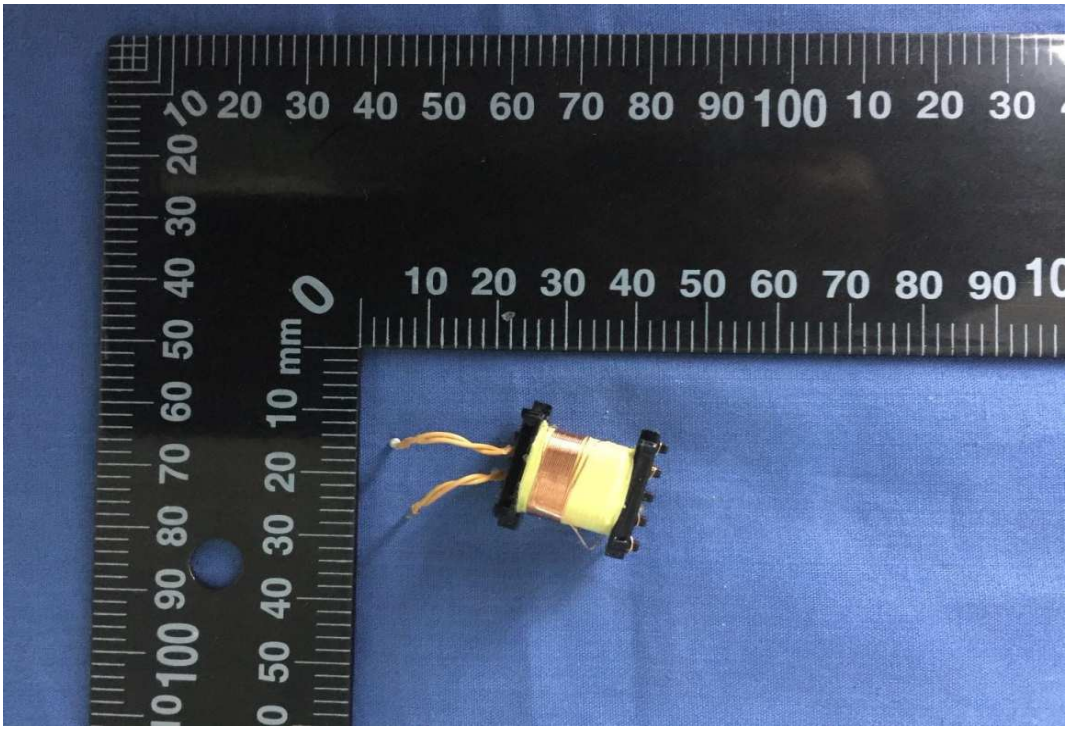


Photo 20 - transformer



3.0 Product Photographs

Photo 21 - Secondary winding view of mains transformer (TIW)

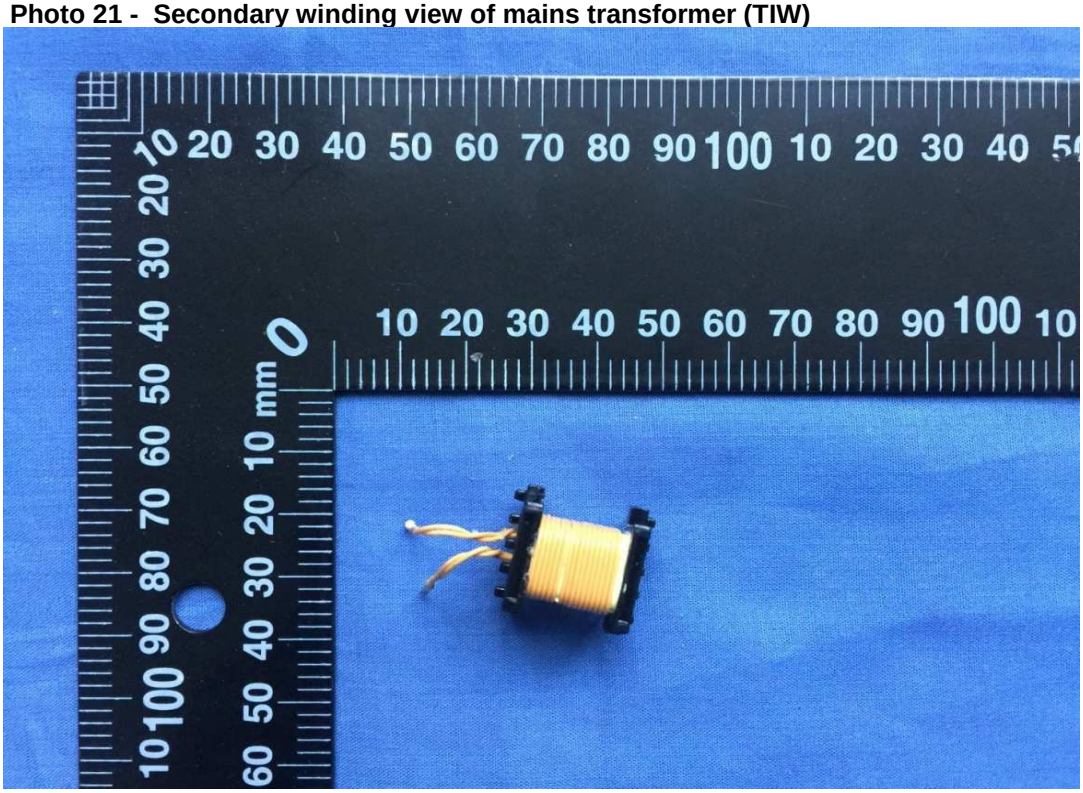
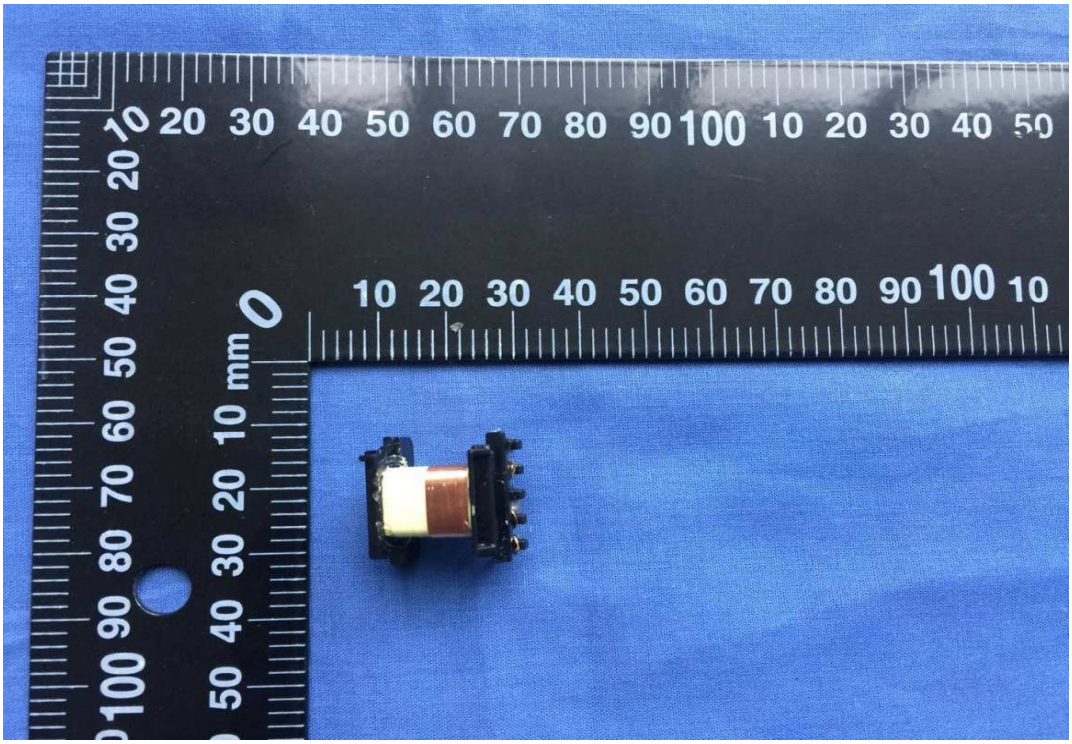


Photo 22 - Transformer



3.0 Product Photographs

Photo 23 - Primary winding view of mains transformer

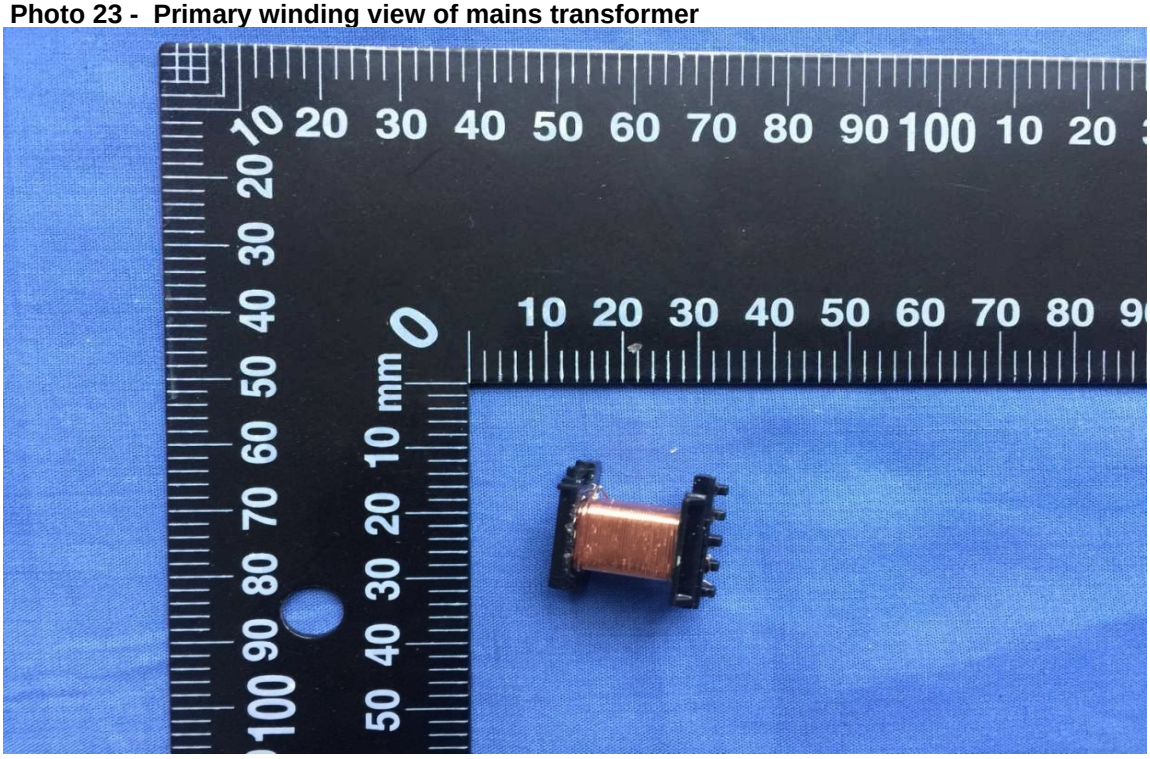
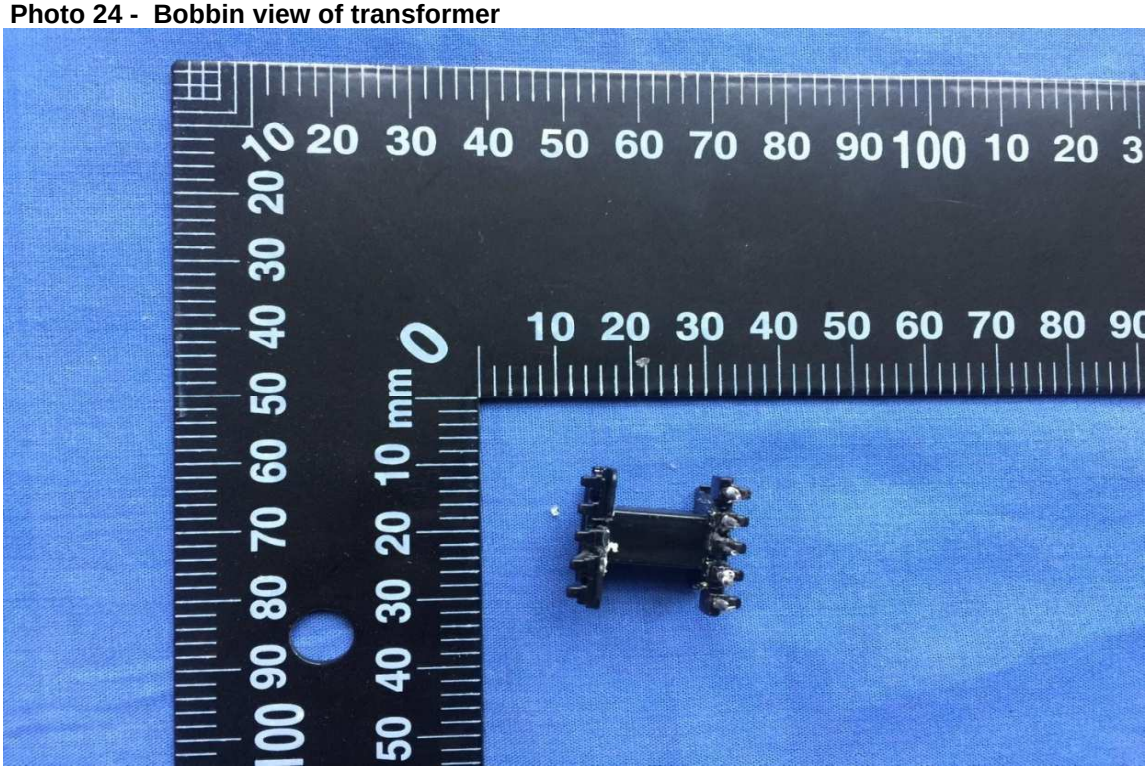


Photo 24 - Bobbin view of transformer



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	1	Plastic enclosure	SABIC JAPAN L L C	SE1X	V-1, Min. thickness: 1.5mm, 105°C	UR
				SE100	V-1, Min. thickness: 1.5mm, 80°C	UR
				940	V-0, Min. thickness: 1.5mm, 120°C	UR
				CX7211	V-0, Min. thickness: 1.5mm, 90°C	UR
				C2950	V-0, Min. thickness: 1.5mm, 75°C	UR
				925U	V-0, Min. thickness: 1.5mm, 115°C	UR
				945	V-0, Min. thickness: 1.5mm, 120°C	UR
				CH6410	V-0, Min. thickness: 1.5mm, 100°C	UR
				EXCY0198	V-0, Min. thickness: 1.5mm, 100°C	UR
			SABIC INNOVATIVE PLASTICS B V	SE1X	V-1, Min. thickness: 1.5mm,105°C	UR
				SE1	V-1, Min. thickness: 1.5mm,105°C	UR
				C2950	V-0, Min. thickness: 1.5mm, 75°C	UR
				CX7211	V-0, Min. thickness: 1.5mm, 90°C	UR
				945	V-0, Min. thickness: 1.5mm, 120°C	UR
				HF500R	V-0, Min. thickness: 1.5mm, 125°C	UR
			ASAHI KASEI CORPORATION	540V	V-1, Min. thickness: 1.5mm, 100°C	UR
			COVESTRO DEUTSCHLAND AG [PC RESINS]	FR6005	V-0, Min. thickness: 1.5mm, 105°C	UR
				6485	V-0, Min. thickness: 1.5mm, 115°C	UR
			IDEMITSU KOSAN CO LTD	AZ2201	V-0, Min. thickness: 1.5mm, 125°C	UR
1,13	2	Plug holder	SABIC Japan L L C	SE1X	V-1, Min. thickness: 1.5mm, 105°C	UR
				945	V-0, Min. thickness: 1.5mm, 120°C	UR
			NAN YA PLASTICS CORP PLASTICS 3RD DIV	6410G5	V-0, Min. thickness: 1.5mm, 115°C	UR
			SABIC INNOVATIVE PLASTICS B V	SE1X	V-1, Min. thickness: 1.5mm, 105°C	UR
				SE1		UR
				945	V-0, Min. thickness: 1.5mm, 120°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]
4,16	3	PCB	Shenzhen Wuzhu Tech Co Ltd	WZ-4	V-0, 130°C,Min. 1.0mm	UR
			WALEX ELECTRONIC(WUXI)CO LTD	T2	V-0, 130°C,Min. 1.0mm	UR
				T2A	V-0, 130°C,Min. 1.0mm	UR
				T2B	V-0, 130°C,Min. 1.0mm	UR
				T4	V-0, 130°C,Min. 1.0mm	UR
			DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1	V-0, 130°C,Min. 1.0mm	UR
				2V0	V-0, 130°C,Min. 1.0mm	UR
				FR4	V-0, 130°C,Min. 1.0mm	UR
			Huizhou Shunjia Electronics Co Ltd	SJ-B	V-0, 130°C,Min. 1.0mm	UR
			Cheerful Electronics(HK)Ltd	02	V-0, 130°C,Min. 1.0mm	UR
				03	V-0, 130°C,Min. 1.0mm	UR
				03A	V-0, 130°C,Min. 1.0mm	UR
			Dongguan Daysun Electronic Co Ltd	DS2	V-0, 130°C,Min. 1.0mm	UR
			Suzhou City Yilihua Electronics Co Ltd	YLH-1	V-0, 130°C,Min. 1.0mm	UR
			DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0	V-0, 130°C,Min. 1.0mm	UR
				04V0	V-0, 130°C,Min. 1.0mm	UR
				03V0	V-0, 130°C,Min. 1.0mm	UR
			BRITE PLUS ELECTRONICS(SUZHOU)CO LTD	DKV0-3A	V-0, 130°C,Min. 1.0mm	UR
				DGV0-3A	V-0, 130°C,Min. 1.0mm	UR
			KUOTIANG ENT LTD	C-2	V-0, 130°C,Min. 1.0mm	UR
				C-2A	V-0, 130°C,Min. 1.0mm	UR
			SHENZHEN TONGCHUANXIN ELECTRONICS CO LTD	TCX	V-0, 130°C,Min. 1.0mm	UR
			PACIFIC WIN INDUSTRIAL LTD	PW-02	V-0, 130°C,Min. 1.0mm	UR
				PW-03	V-0, 130°C,Min. 1.0mm	UR
			YUANMAN PRINTED CIRCUIT CO LTD	1V0	V-0, 130°C,Min. 1.0mm	UR
			SUZHOU XINKE ELECTRONICS CO LTD	XK-2	V-0, 130°C,Min. 1.0mm	UR
				XK-3	V-0, 130°C,Min. 1.0mm	UR
			KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S	V-0, 130°C,Min. 1.0mm	UR
			JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	V-0, 130°C,Min. 1.0mm	UR
			SHANGHAI H-FAST ELECTRONIC CO LTD	211001	V-0, 130°C,Min. 1.0mm	UR
				411001	V-0, 130°C,Min. 1.0mm	UR
			Various	Various	V-0, 130°C,Min. 1.0mm	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]
3,15	4	Resistor Fuse	Anhui Changsheng Electronics Co., Ltd	RXF21-2W	3.3ohm, 2W For model series：USB structure only	UR
			Shenzhen Great Electronics Co. Ltd.	RXF	3.3ohm, 2W For model series：USB structure only	UR
			Shenzhen Kayocota Electronics Co., Ltd	FRKNP	3.3ohm, 2W For model series：USB structure only	UR
			TZAI YUAN Enterprise Co., Ltd	KNF	3.3ohm, 2W For model series：USB structure only	UR
3	5	Current fuse	LITTELFUSE WICKMANN	392	T1A or 2A, 250V,sub-miniature fuse	UR
			Ever Island Electric Co., Ltd. & Walter Electric	2010 series	T1A or 2A, 250V,sub-miniature fuse	UR
			Shenzhen Lanson Electronics Co. Ltd.	SMT	T1A or 2A, 250V,sub-miniature fuse	UR
			Conquer Electronics Co., Ltd.	MST	T1A or 2A, 250V,sub-miniature fuse	UR
			Cooper Bussmann LLC	SS-5	T1A or 2A, 250V,sub-miniature fuse	UR
			Bel Fuse Ltd.	RST-Serie(s)	T1A or 2A, 250V,sub-miniature fuse	UR
			SMART ELECTRONICS INC	SPT	T1A or 2A, 250V,sub-miniature fuse	UR
			SUNNY EAST ENTERPRISE CO LTD	TSP series	T1A or 2A, 250V,sub-miniature fuse	UR
			Conquer Electronics Co., Ltd.	PTU	T1A or 2A, 250V,sub-miniature fuse	UR
				MET		UR
			Littelfuse Inc	877	T1A or 2A, 250V,sub-miniature fuse	UR
			NIPPON SEISEN CABLE LTD	SLT	T1A or 2A, 250V,sub-miniature fuse	UR
			Walter Electronic Co. Ltd.	ICP	T1A or 2A, 250V,sub-miniature fuse	UR
			XC ELECTRONICS (SHENZHEN) CORP LTD	5TE	T1A or 2A, 250V,sub-miniature fuse	UR
				4T series		UR
			DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	T1A or 2A, 250V,sub-miniature fuse	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]
3,15	6	Y-Capacitor	TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group	CD	Y1, AC250V, max 2200pF, 25/085/21/B (optional)	UR
			Murata Mfg. Co., Ltd.	KX	Y1, AC250V, max 2200pF, 25/125/21/B (optional)	UR
			Success Electronics Co., Ltd.	SE	Y1, AC250V, max 2200pF, 30/125/56/C (optional)	UR
			Success Electronics Co., Ltd.	SB	Y1, AC250V, max 2200pF, 30/125/56/C (optional)	UR
			JYA-NAY Co., Ltd.	JN	Y1, AC250V, max 2200pF, 30/125/56/C (optional)	UR
			WELSON INDUSTRIAL CO LT D	WD	Y1, AC250V, max 2200pF, 30/125/56/C (optional)	UR
			SAMWHA CAPACITOR CO LTD	SD	Y1, AC250V, max 2200pF, 30/125/56/C (optional)	UR
			NAN JING YUYUE ELECTRONICS CO LTD	CT7	Y1, AC250V, max 2200pF, 30/125/56/C (optional)	UR
			YINAN DON'S ELECTRONIC COMPONENT CO LTD	CT81	Y1, AC250V, max 2200pF, 30/125/56/C (optional)	UR
			JYH CHUNG ELECTRONICS CO LTD	JD	Y1, AC400V, max 2200pF, 30/125/56/C (optional)	UR
			JYH CHUNG ELECTRONICS CO LTD.	JY	Y1, AC300V, max 2200pF, 30/125/56/C (optional)	UR
3,15	7	Transformer	GlobTek /BOAM/HAOPUWEI/Dee Van Enterprise Co., Ltd.	90E10PFX0	Output voltage range:5-5.2VDC;T1:Class B (E243347,E252329,E315275,E159480). For model series: USB structure only. Details see illustration No. 6.	NR
				90E10PF02	Output voltage range:5-5.2VDC;T1:Class B (E243347,E252329,E315275,E159480). For model series: DC Cord structure only. Details see illustration No. 7.	NR
12	8	Bobbin of Transformer	HITACHI CHEMICAL CO LTD	CP-J-8800	V-0, 150°C, thickness 0.45 mm min.	UR
			SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0.45 mm min.	UR
				PM-9630	V-0, 150°C, thickness 0.45 mm min.	UR
			CHANG CHUN PLASTICS CO LTD	T375J	V-0, 140°C, thickness 0.74 mm min.	UR
				T373J	V-0, 150°C, thickness 0.45 mm min.	UR
				T375HF	V-0, 150°C, thickness 0.45 mm min.	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]
11	9	Magnet Wire of Transformer	Golden Ocean	UEW	130`C	UR
			Da Yang	UEW	130°C	UR
			Wa Tai	UEW	130°C	UR
			Feng Ching	UEW	130°C	UR
			TAI-I	UEW	130°C	UR
			NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	155°C	UR
9	10	Triple-insulated wire of Transformer	Furukawa Electric Co., Ltd.	TEX-E	Class B, reinforced insulation	UR
			SUZHOU YUSHENG ELECTRONIC CO LTD	TIW-B	Class B, reinforced insulation	UR
				TWE-3		UR
			DAH JIN TECHNOLOGY CO LTD	TLW-B	Class B, reinforced insulation	UR
			COSMOLINK CO. Ltd.	TIW-M	Class B, reinforced insulation	UR
			YOUNG CHANG SILICONE CO LTD	STW-B	Class B, reinforced insulation	UR
			Great Leoflon Industrial Co., Ltd.	TRW (B) Serie(s)	Class B, reinforced insulation	UR
			E&B TECHNOLOGY CO LTD	E&B-B	Class B, reinforced insulation	UR
			DONGGUAN KOSHEN INSULATOR CO LTD	TIW-B	Class B, reinforced insulation	UR
10	11	Insulating tape of Transformer	SYMBIO INC	35660	130°C	UR
				35661		
				35660Y		
			3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130°C	UR
				1350T-1		
			BONDTEC PACIFIC CO LTD	370S	130°C	UR
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	130°C	UR
				CT		
				WF		
			JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	130°C	UR
			CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	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]
2	12	blades	Various	Q-US	nickel coated copper, with min. thickness 1.40mm, see illustration 5	NR
15	13	Varistor	CENTRA SCIENCE CORP	CNR-10D471K	Min. 300Vac, 40/85/56, fulfilled 6kV/3kA pulse test.V-1. (Optional) (For model series：DC Cord structure only)(MOV1)	UR
				CNR-10D511K		
				CNR-14D471K		
				CNR-14D511K		
			Joyin Co Ltd	JVR10N471K	Min. 300Vac, 40/85/56, fulfilled 6kV/3kA pulse test.V-1. (Optional)(For model series：DC Cord structure only)(MOV1)	UR
				JVR10N511K		
				JVR14N471K		
				JVR14N511K		
			GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO LTD. XIANHUA NEW SENSITIVE COMPONENTS BRANCH	FNR-10K471K	Min. 300Vac, min. 385Vdc, 40/85/56,fulfilled 6kV/3kA pulse test.V-1. (Optional)(For model series：DC Cord structure only)(MOV1)	UR
				FNR-10K511K		
				FNR-14K471K		
				FNR-14K511K		
			Success Electronics Co Ltd	SVR10D471K	Min. 300Vac, min. 385Vdc, 40/85/56,fulfilled 6kV/3kA pulse test.V-1. (Optional)(For model series：DC Cord structure only)(MOV1)	UR
				SVR10D511K		
				SVR14D471K		
				SVR14D511K		
			Thinking Electronic Industrial Co Ltd	TVR10471K	Min. 300Vac, min. 385Vdc, 40/85/56,fulfilled 6kV/3kA pulse test.V-1. (Optional)(For model series：DC Cord structure only)(MOV1)	UR
				TVR10511K		
				TVR14471K		
				TVR14511K		
			Brightking (Shenzhen) Co., Ltd.	CNR471KD10	Min. 300Vac, min. 385Vdc, 40/85/56,fulfilled 6kV/3kA pulse test.V-1. (Optional)(For model series：DC Cord structure only)(MOV1)	UR
				CNR511KD10		
				CNR471KD14		
				CNR511KD14		
				14D471K		
				14D511K		

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	14	Mylar	TORAY INDUSTRIES INC FILM DIV	Lumirror H10	VTM-2, Min. thickness: 0.4mm, 105°C （For model series：USB structure only)	UR
			SKC CO LTD	SH71S	VTM-2, Min. thickness: 0.4mm, 105°C（For model series：USB structure only)	UR
			FORMEX, DIV OF ILLINOIS TOOL WORKS INC	FORMEX GK	V-0, Min. thickness: 0.4mm, 115°C（For model series：USB structure only)	UR
			SABIC INNOVATIVE PLASTICS US L L C	FR60	V-0, Min. thickness: 0.4mm, 130°C（For model series：USB structure only)	UR
				FR63	V-0, Min. thickness: 0.4mm, 130°C（For model series：USB structure only)	UR
				FR65	V-0, Min. thickness: 0.4mm, 130°C（For model series：USB structure only)	UR
				FR7	V-0, Min. thickness: 0.4mm, 130°C（For model series：USB structure only)	UR
				FR700	V-0, Min. thickness: 0.4mm, 130°C（For model series：USB structure only)	UR
			SICHUAN LONGHUA FILM CO LTD	PP-BK-20	VTM-0, Min. thickness: 0.4mm, 80°C（For model series：USB structure only)	UR
			CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX PP WT-10	VTM-0, Min. thickness: 0.4mm, 110°C（For model series：USB structure only)	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

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, 4.0mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 7.0mm minimum between such current-carrying 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 - 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 metal/plastic enclosure constructed such that any openings are not penetrable by the probe specified in the above-referenced Standard.
5. 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.
6. Markings -refer to Illustration 1 for detial.
7. Cautionary Markings - refer to Illustration 1 for detial.
8. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustration 2 to 4 for detials.
9. Transformer - Supplier records must be provided that indicate the received shipment of transformers (section 4.0, item 7) was constructed as indicated in Illustrations 6 to 7. These records must be available at the factory for inspection on every received shipment.

7.0 Illustrations

Illustration 1 - Marking

Note: the marking plate of other models are the same as above, except for model name and output parameter.

7.0 Illustrations

Illustration 2 - User manual

POWER SUPPLY INFORMATION

TYPE:	Wall Plug-in
TECHNOLOGY:	AC/DC Switching Adapter with USB Power Supply AC Adaptor
CASE COLOR:	GlobTek Black
NAMEPLATE RATED INPUT:	100-240V~, 50-60 Hz, 0.3A
INPUT CONFIG:	N. America NEMA 1-15 Fixed
WATTS:	10.0
VOLTS OUT:	5
CURRENT OUT (Amps):	2
BLADE/CORD INCLUDED:	FBNA2: Fixed Blades North American 1-15P
BLADE/CORD INSTALLED:	FBNA2: Fixed Blades North American 1-15P
GROUNDING CONFIGURATION	Class II / Double Insulated
EFFICIENCY LEVEL:	VI
OUTPUT CONFIGURATION	N/A mm, N/A/4 Cond, N/A, Type "A" USB "JACK", integral to power supply enclosure, Ferrite: None, N/A, GT Cord # C0132
CONNECTOR PIN OUT:	Pin 1: (+), Pin 2: Connected to Pin 3, Pin 3: Connected to Pin 2, Pin 4: (-); P2 and P3 are shorted together inside Power supply
LABEL SPECS:	Standard GT,L-1186
PACK SPEC:	Standard with USB Jack, Individually Box

Notes/Modifications/Customizations (notes in this section supersede the values shown in the standard spec):

UNIT HAS LED ON THE ENCLOSURE

ELECTRICAL SPECIFICATIONS

01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
02. Input Frequency: Specified 47-63 Hz, Nameplate rated. 50-60 Hz,
03. Output Regulation: +/- 5% measured at the end of a 1 meter USB cordset employing #20 Gauge conductors
04. Line Voltage Regulation: +/- 1% typical measured at the end of a 1 meter USB cordset employing #20 Gauge conductors
05. Output Ripple (Vp-p): 100 mVpp max, measured at the end of a 1 meter USB cordset employing #20 Gauge conductors. Measured at 20 MHz bandwidth with 0.1 uf ceramic capacitor in parallel with a low impedance 47 uf electrolytic capacitor connected at the end of the output connector.
06. Hold-up Time: 5 mS minimum
07. Inrush Current: 30A maximum @ 230Vac input
08. Energy Efficiency: Complies to Efficiency Level VI and EU CoC Tier 2

B) PROTECTION
01. Over-current protection: 4A maximum with auto-recovery function
02. Over-voltage protection: 10VDC maximum with zener clamp
03. Short-circuit protection: The adapter shall not be damaged by short the DC output to Ground.

C) SAFETY
01. Dielectric Withstand Voltage: Primary To Secondary: 4000VAC or 5656VDC for 3 seconds
02. Leakage Current: 50uA maximum, at nominal 240Vac input voltage
03. ESD Immunity per EN61000-4-2, ±8 kV contact, ±15 kV air, Perf Criteria A Standard.

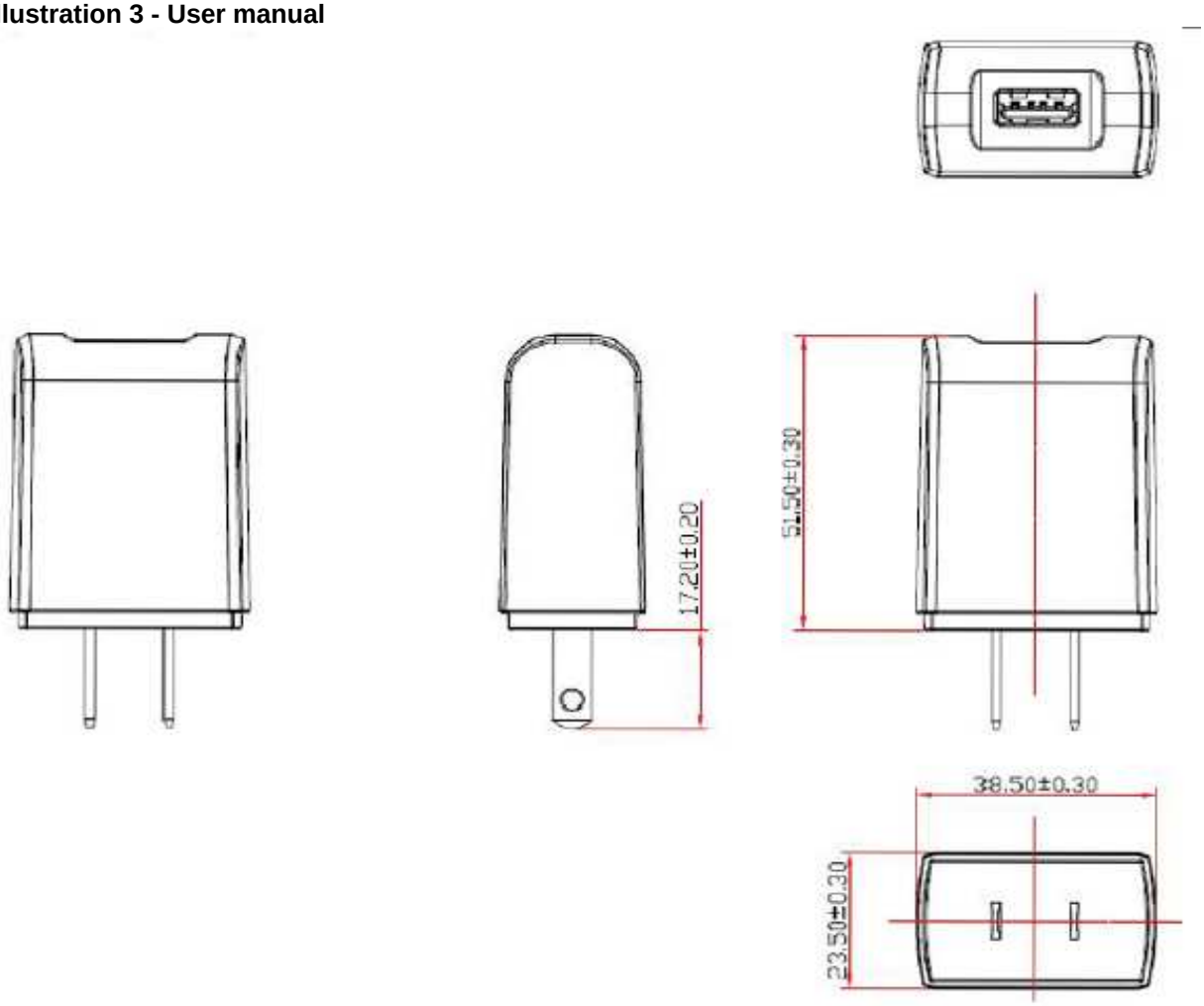
D) OTHER:
01. MTBF: 300,000 Hours @ 25°C ambient temperature
02. Operating Temperature: 0°C to 40°C ambient temperature
03. Operating Humidity: 20 ~ 85 % RH. non-condensing
05. Storage Temperature: -20°C to 60°C
06. Storage Humidity:5 ~ 95 % RH. non-condensing
07. Cooling: Natural convection cooling
08. RoHS 2: Complies with EU 2011/65/EU China SJ/T 11364-2014

E) ENCLOSURE
01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Markings: Label and/or Pad Printed and/or Molded in the case

F) OPTIONS:
01. Green Power On Indicator LED
02. NEMA 1-15P or European Schuko 7-16 AC Plug Configuration
03. Increased DC Output Voltage (up to 5.4V) to allow for long output cables
04. Special International Safety Approvals
05. Housing Color, special markings

7.0 Illustrations

Illustration 3 - User manual

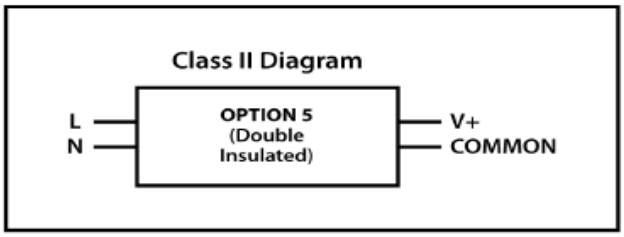


Model	Output Voltage	Max. output current	Max. output power
GT*86100-**-W2*	5-5.2VDC	2A	10W
GT*86100-**-W2-USB	5VDC	2A	10W
GT*86100-**-W2	5VDC	2A	10W

7.0 Illustrations

Illustration 4 - User manual

INPUT CONFIGURATION



Grounding Configuration:
Blades/Cord Included: FBNA2: Fixed Blades North American 1-15P

Blades/Cord Installed: FBNA2: Fixed Blades North American 1-15P

NEMA 1-15P, North America Blades, Class II 2 Conductors

All NEMA 1 devices are two-wire non-grounding devices (hot-neutral) rated for 125 V maximum. NEMA 1-15P plugs have two parallel flat blades, 0.25 inches (6.35 mm) wide, 0.06 inches (1.524 mm) thick, 0.625-0.718 inches (15.875–18.256 mm) long, and spaced 0.5 inches (12.7 mm) apart.

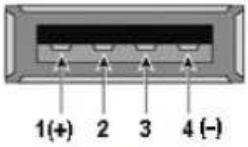
OUTPUT CORD AND CONNECTOR: USBMT/C0132

ACTUAL CONNECTORS, OVERMOLDS, FERRITES MAY VARY SLIGHTLY FROM THE PICTURE BELOW

CABLE TYPE	N/A
CABLE LENGTH (mm)	N/A
CABLE TOLERANCE (mm)	N/A
WIRE GAUGE (AWG)	N/A
CONDUCTORS	4
HANK DIMENSION (mm)	N/A
CABLE / CONNECTOR OVERMOLD COLOR	N/A
FERRITE TYPE / DIMENSION	None
FERRITE # OF TURNS (Definition)	N/A
FERRITE DIMENSION FROM STRAIN RELIEF	N/A
FERRITE DIMENSION FROM PLUG	N/A
PLUG TYPE	Type "A" USB "JACK", integral to power supply enclosure
OVER MOLD ORIENTATION	PCB Mount Connector
CONNECTOR PIN OUT:	Pin 1: (+), Pin 2: Connected to Pin 3, Pin 3: Connected to Pin 2, Pin 4: (-); P2 and P3 are shorted together inside Power supply

ADDITIONAL REQUIREMENTS

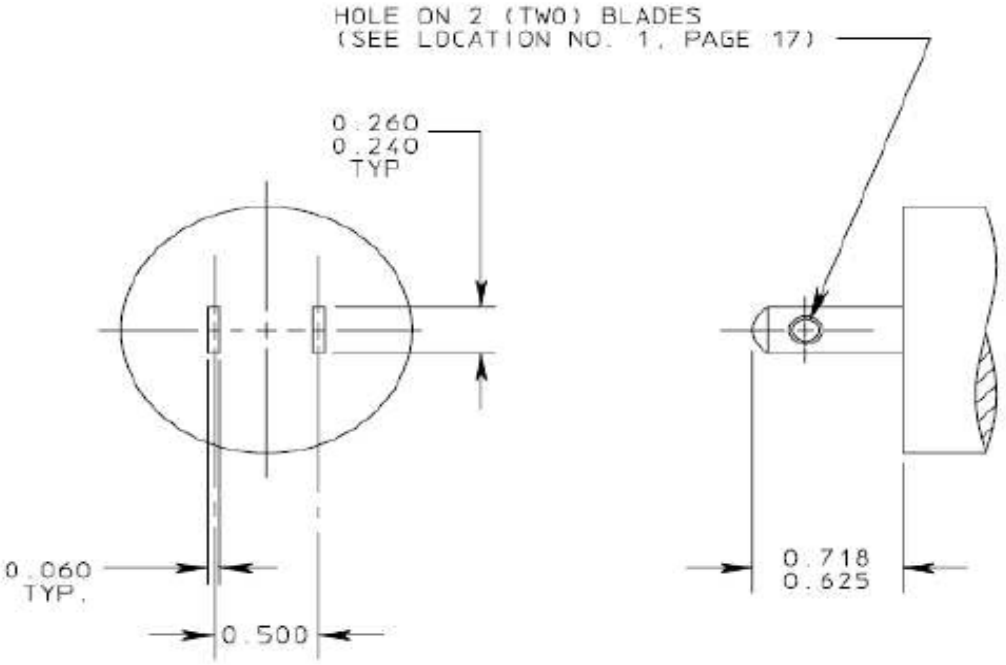
Front View



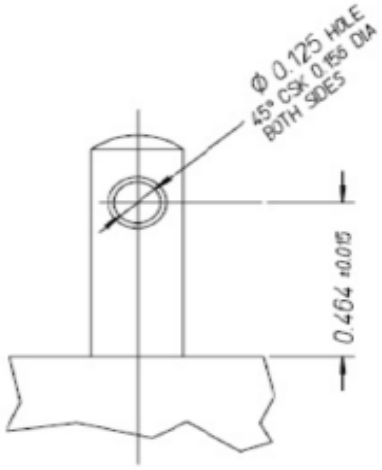
ADDITIONAL OUTPUT PLUG OPTIONS ARE AVAILABLE AT http://www.globtek.com/connectors/
STANDARD PLUGS AND CONNECTORS CAN BE SEEN ONLINE AT http://www.globtek.com/connectors/

7.0 Illustrations

Illustration 5 - NEMA 1-15P non-polarized configuration standard sheet (unit inch)



NON–POLARIZED PLUG

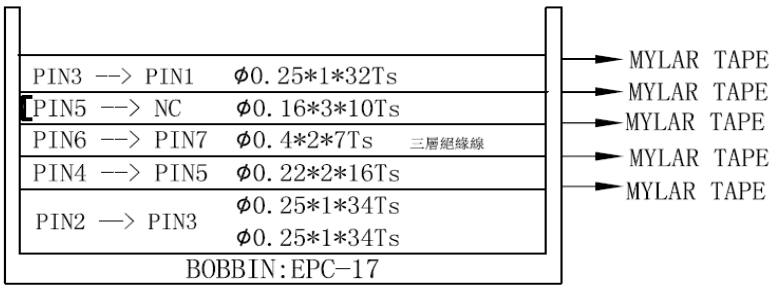


LOCATION # 1

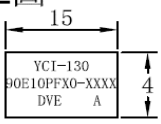
7.0 Illustrations

Illustration 6 - Specifications for T1 (model 90E10PFX0)

1.繞線順序圖



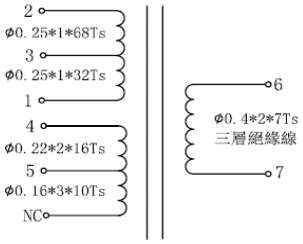
2.LABEL圖



"XXXX" to denote the part number, can be any alphanumeric character for marketing purposes only.

The transformer can not appear the phenomenon of crossing between the primary winding and secondary winding.

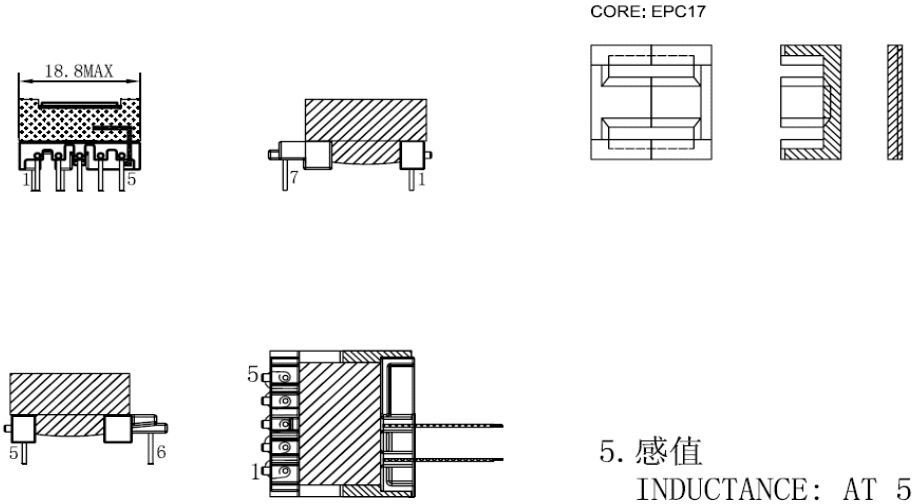
3. 原理圖



● 黑點表示極性

4. 三視圖

CORE: EPC17



5. 感值

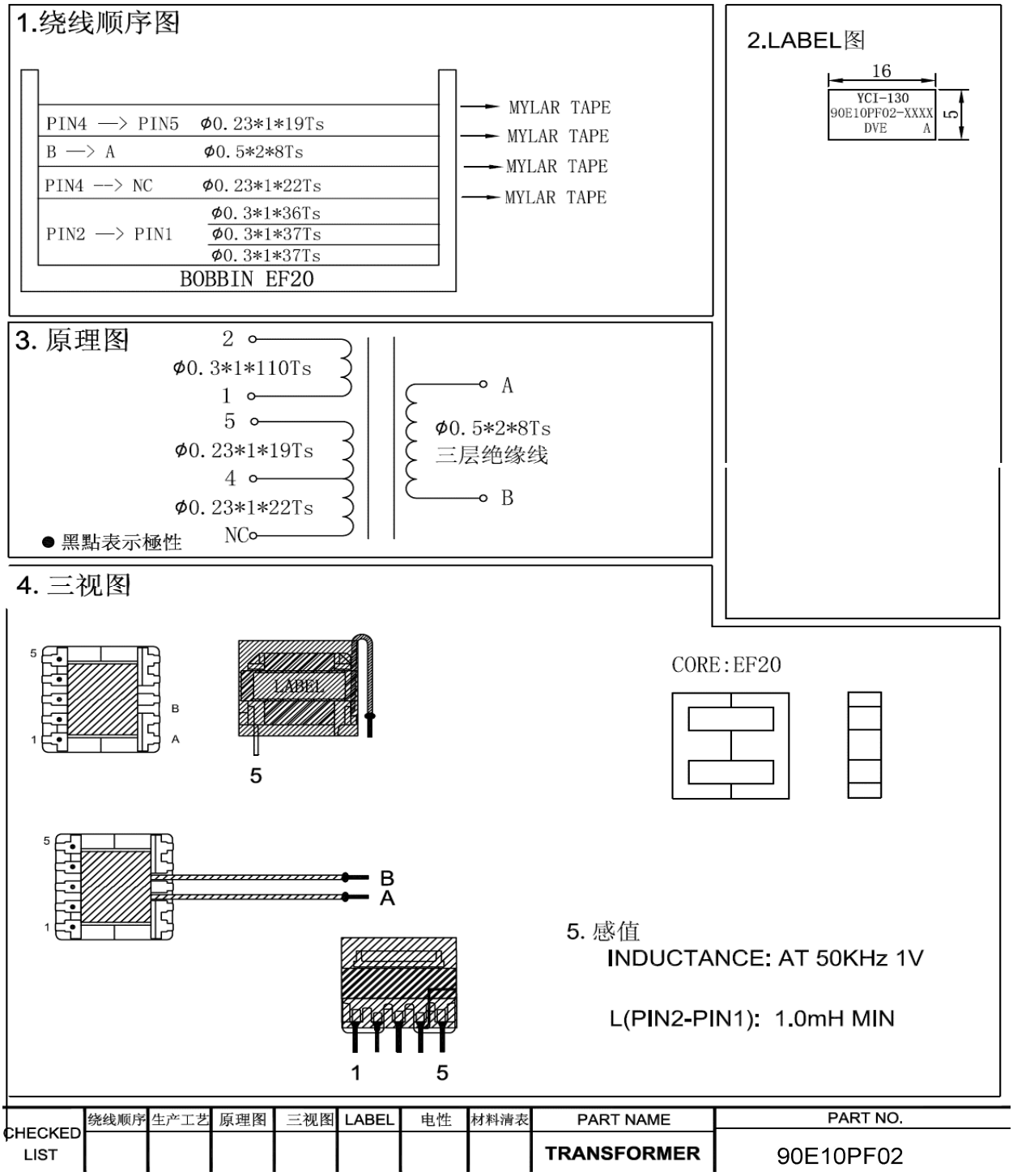
INDUCTANCE: AT 50KHz 1V

L(PIN5-PIN1): 0.8mH MIN

CHECKED LIST	繞線順序	生產工藝	原理圖	三視圖	LABEL	電性	材料清表	PART NAME	PART NO.
								TRANSFORMER	90E10PFX0

7.0 Illustrations

Illustration 7 - Specifications for T1 (model 90E10PF02)



CHECKED LIST	绕线顺序	生产工艺	原理图	三视图	LABEL	电性	材料清表	PART NAME	PART NO.
								TRANSFORMER	90E10PF02

8.0 Test Summary					
Evaluation Period	2018-08-29 to 2018-09-28			Project No.	180301432SHA
Sample Rec. Date	29-Aug-2018	Condition	Prototype	Sample ID.	0180829-42-001
Test Location	Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, 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 62368-1:2014 Ed.2 CSA C22.2#62368-1:2014 Ed.2 Clause
Accessibility to electrical energy sources and safeguards	5.3.2
Temperature measurements	5.4.1.4, 6.3.2, 9.0, B.2.6
Clearances and creepage distances measurement	5.4.2/5.4.3
Electric strength test	5.4.9
Stored discharge on capacitors	5.5.2.2
Prospective touch voltage, touch current and protective conductor current test	5.7
Electrical power sources (PS) measurements for classification	6.2.2
Input test	B.2.5
Simulated abnormal operating conditions	B.3
Simulated single fault conditions	B.4
Marking durability test	F.3.10
Limited power source test	Q.1
Steady force test – 10 N	T.2
Steady force test – 30 N	T.3
Steady force test – 250 N	T.5
Enclosure impact test	T.6
Determination of accessible parts test	V.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.			
Completed by:	Frank Zhu	Reviewed by:	Jacky Shu
Title:	Certification Engineer	Title:	Reviewer
Signature:	Frank Zhu	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	GlobTek, Inc.
Address	186 VETERANS DRIVE NORTHVALE NJ 07647
Country	USA
Product	ITE POWER SUPPLY

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 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 Shanghai Limited
ETL Component Evaluation Center
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms. Dansy Xu
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

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

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.
The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

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.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:
1 - a voltmeter in the primary circuit;
2 - a selector switch marked to indicate the test potential; or
3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.
In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

Product - 100% of production of the products covered by this Report	**Test Voltage**	**Test Time**
All products covered by this Report.(between Primary circuit and secondary circuit)	4000V r.m.s.	1 s
Product - One sample from each shipment of Section 4.0 item 7	**Test Voltage**	**Test Time**
Between prim. and sec. output	3000V r.m.s.	1 min
Between Sec. and core	3000V r.m.s.	1 min

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
				None