


1.0 Reference and Address			
Report Number	220900736SHA-001	Original Issued: 18-Jul-2023	Revised: None
Standard(s)	Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements [UL 62368-1:2019 Ed.3+R:22Oct2021] Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements [CSA C22.2#62368-1:2019 Ed.3+U1]		
Applicant	GlobTek, Inc.	Manufacturer 1	GlobTek (Suzhou) Co., Ltd.
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2.0 Product Description	
Product	ICT/ITE Power Supply
Brand name	
Description	<p>The EUT is an adapter intended for using within the scope of information technology equipment, all electronic components are mounted on PWB and housed in a plastics enclosure which is secured by ultrasonic welding, output by non-detachable output wire or USB port, for indoor use only. The product does not include a plug. Maximum recommended ambient (Tma):40°C</p>
Models	<p>GTM followed by 46360; followed by -; followed by 01 to 30; followed by 3.0 to 5.0; followed by -USB1A, -USB2A, -USB1C, -USB2C or -USB1A1C; may be followed by any six characters, GTM followed by 96183; followed by -; followed by 18 or 36; followed by PD; may be followed by -PPS; followed by -USB1C; may be followed by any six characters, GTM followed by 96181; followed by -; followed by 18 or 36; followed by PD; may be followed by -PPS; may be followed by -T2, -T2A, -T3 or -T3A; may be followed by any six characters</p>
	<p>All the models are similar to each other except for model name, input method (wall plug or inlet), transformer model, output rating and output port (USB A or USB C). So, the detail see below.</p> <p>GTM followed by 46360; followed by -; followed by 01 to 30; followed by 3.0 to 5.0; followed by -USB1A, -USB2A, -USB1C, -USB2C or -USB1A1C; may be followed by any six characters, GTM46360-**** The 1st "*" denotes the rated output wattage designation, which can be "01" to "30", with interval of 1. The 2nd "*" denotes the standard rated output voltage designation, it can be "3.0" to "5.0" with interval of 0.1Vdc, The 3th "*"=-USB1A means USB A*1 =-USB2A means USB A*2 =-USB1C means USB Type C*1 =-USB2C means USB Type C*2 =-USB1A1C means USB A*1 and USB Type C*1 The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.</p> <p>GTM followed by 96183; followed by -; followed by 18 or 36; followed by PD; may be followed by -PPS; followed by -USB1C; may be followed by any six characters, GTM96183-*PD*-USB1C* The 1st "*" denotes the rated output wattage designation, which can be "18" or "36" The 2nd "*" = -PPS or blank, PPS means power supply with PPS (Programmable Power Supply) function, the rated output voltage can be "5.0" to "21.0" with interval of 0.1Vdc, the rated output maximum current can be 3.0A; blank means power supply without PPS (Programmable Power Supply) function, the rated output voltage can be "5.0" to "20.0" with interval of 0.1Vdc, The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes. The whole series output will be any one voltage/ current combinations (Power Profiles), between 5.0Vdc and 21Vdc.</p> <p>GTM followed by 96181; followed by -; followed by 18 or 36; followed by PD; may be followed by -PPS; may be followed by -T2, -T2A, -T3 or -T3A; may be followed by any six characters When model= GTM96181-*PD**</p>

2.0 Product Description																									
Model Similarity	<p>The 1st “*” denotes the rated output wattage designation, which can be “18” or “36”, with interval of 1. The 2nd“*”= -PPS or blank, PPS means power supply with PPS (Programmable Power Supply) function, the rated output voltage can be “5.0” to “21.0” with interval of 0.1Vdc, the rated output maximum current can be 3.0A;blank means power supply without PPS (Programmable Power Supply) function, the rated output voltage can be “5.0” to “20.0” with interval of 0.1Vdc, The 3th “*”= blank means wall plug in with interchangeable blade =-T2 means desktop class II with C8 AC inlet =-T2A means desktop class II with C18 AC inlet =-T3 means desktop class I with C14 AC inlet =-T3A means desktop class I with C6 AC inlet The last *denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes. The whole series output will be any one voltage/ current combinations (Power Profiles), between 5.0Vdc and 21Vdc.</p> <p>Model list:</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Output voltage range (V dc)</th> <th>Max current(A)</th> <th>Max power(W)</th> </tr> </thead> <tbody> <tr> <td>GTM46360-****</td> <td>3.0-5.0</td> <td>6.0</td> <td>30</td> </tr> <tr> <td>GTM96183-*PD-USB1C* GTM96181-*PD**</td> <td>5.0-20.0</td> <td>3.0</td> <td>36</td> </tr> <tr> <td>GTM96183-*PD-PPS-USB1C* GTM96181-*PD-PPS**</td> <td>5.0-21.0</td> <td>3.0</td> <td>36</td> </tr> </tbody> </table> <p>There are three types of transformers TF123, TF102 and TF103.</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Transformer</th> </tr> </thead> <tbody> <tr> <td>GTM46360-****</td> <td>TF103</td> </tr> <tr> <td>GTM96183-*PD*-USB1C*</td> <td>TF123</td> </tr> <tr> <td>GTM96181-*PD***</td> <td>TF102</td> </tr> </tbody> </table> <p>The models GTM96181-*PD*-T3*, GTM96181-*PD*-T3A*, GTM96181-*PD*-T2* and GT*96181-*PD*-T2A* in this report have AC inlet. All other models are wall plug-in.</p> <p>The models GTM96181-*PD*-T3* and GTM96181-*PD*-T3A* in this report are Class I. All the other models are Class II.</p> <p>The most unfavourable condition was also considered. For model GTM96183-*PD*-USB1C* All tests were conducted on model GTM96183-36PD-USB1C For model GTM96181-*PD*** All tests were conducted on model GTM96181-36PD-T3, GTM96181-36PD-T2, GTM96181-36PD and GTM96181-36PD-PPS-T3 For model GTM46360-**** All tests were conducted on model GTM46360-3005-USB2A</p>	Model	Output voltage range (V dc)	Max current(A)	Max power(W)	GTM46360-****	3.0-5.0	6.0	30	GTM96183-*PD-USB1C* GTM96181-*PD**	5.0-20.0	3.0	36	GTM96183-*PD-PPS-USB1C* GTM96181-*PD-PPS**	5.0-21.0	3.0	36	Model	Transformer	GTM46360-****	TF103	GTM96183-*PD*-USB1C*	TF123	GTM96181-*PD***	TF102
Model	Output voltage range (V dc)	Max current(A)	Max power(W)																						
GTM46360-****	3.0-5.0	6.0	30																						
GTM96183-*PD-USB1C* GTM96181-*PD**	5.0-20.0	3.0	36																						
GTM96183-*PD-PPS-USB1C* GTM96181-*PD-PPS**	5.0-21.0	3.0	36																						
Model	Transformer																								
GTM46360-****	TF103																								
GTM96183-*PD*-USB1C*	TF123																								
GTM96181-*PD***	TF102																								
Ratings	<p>Input:100-240V~, 50-60Hz, GTM46360-****: Max. 0.75A, Output: 3.0-5.0Vdc, Max. 6.0A, Max. 30W GTM96183-*PD*-USB1C*, GTM96181-*PD***:1.2A, Output: 5.0-21.0Vdc, Max. 3.0A, Max. 36W</p>																								
Other Ratings	NA																								

3.0 Product Photographs

Photo 1 - External view of GTM96183-36PD-USB1C



Photo 2 - External view of GTM96183-36PD-USB1C



3.0 Product Photographs

Photo 3 - External view of GTM96183-36PD-USB1C

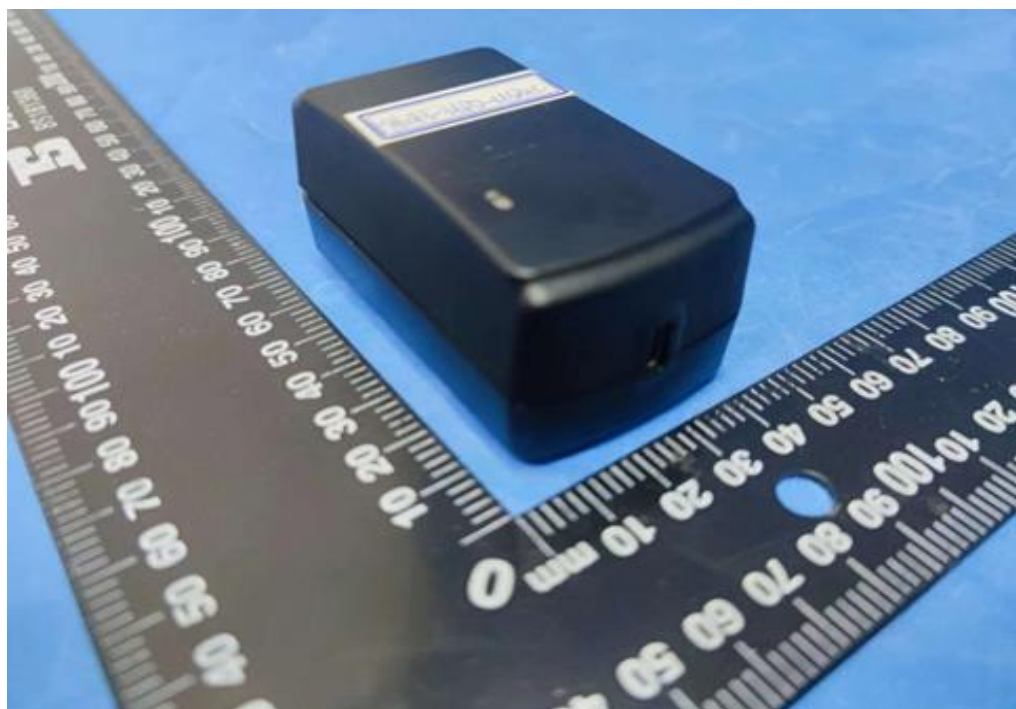
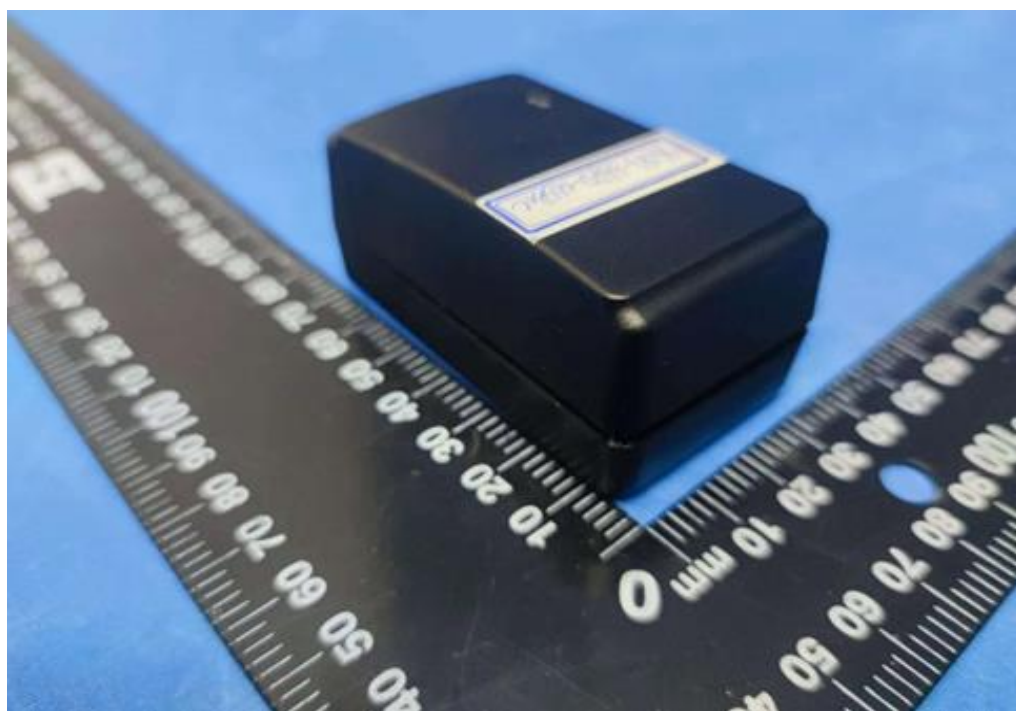


Photo 4 - External view of GTM96183-36PD-USB1C



3.0 Product Photographs

Photo 5 - Internal view of GTM96183-36PD-USB1C

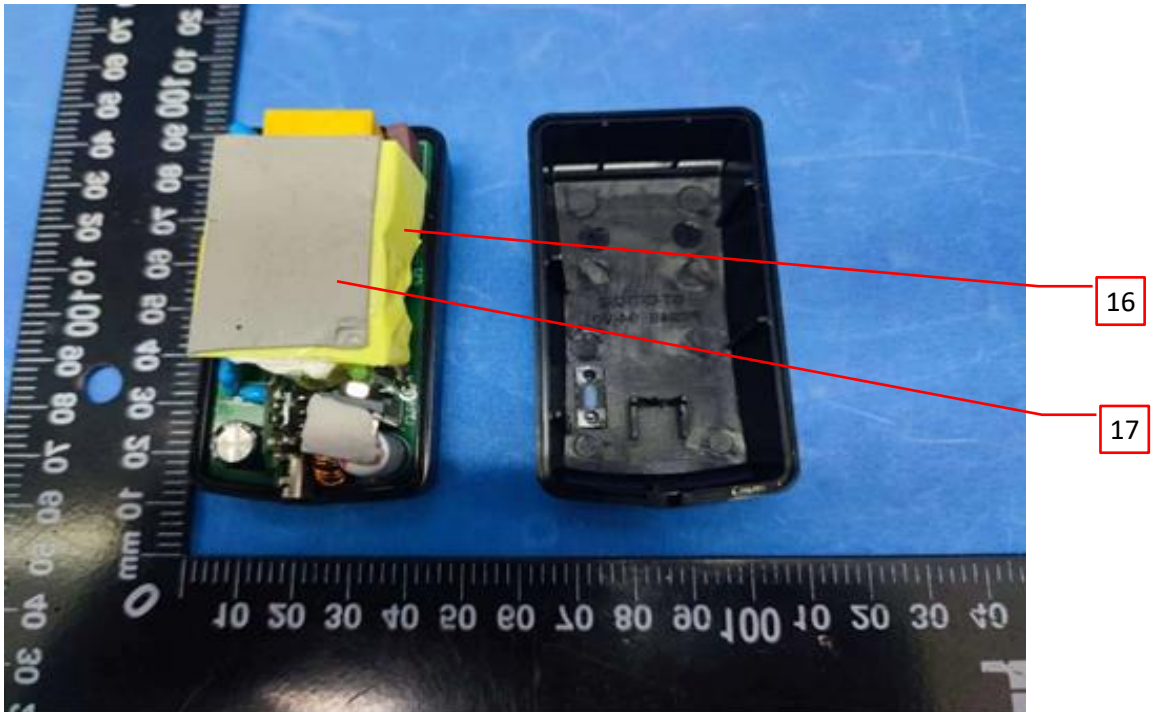
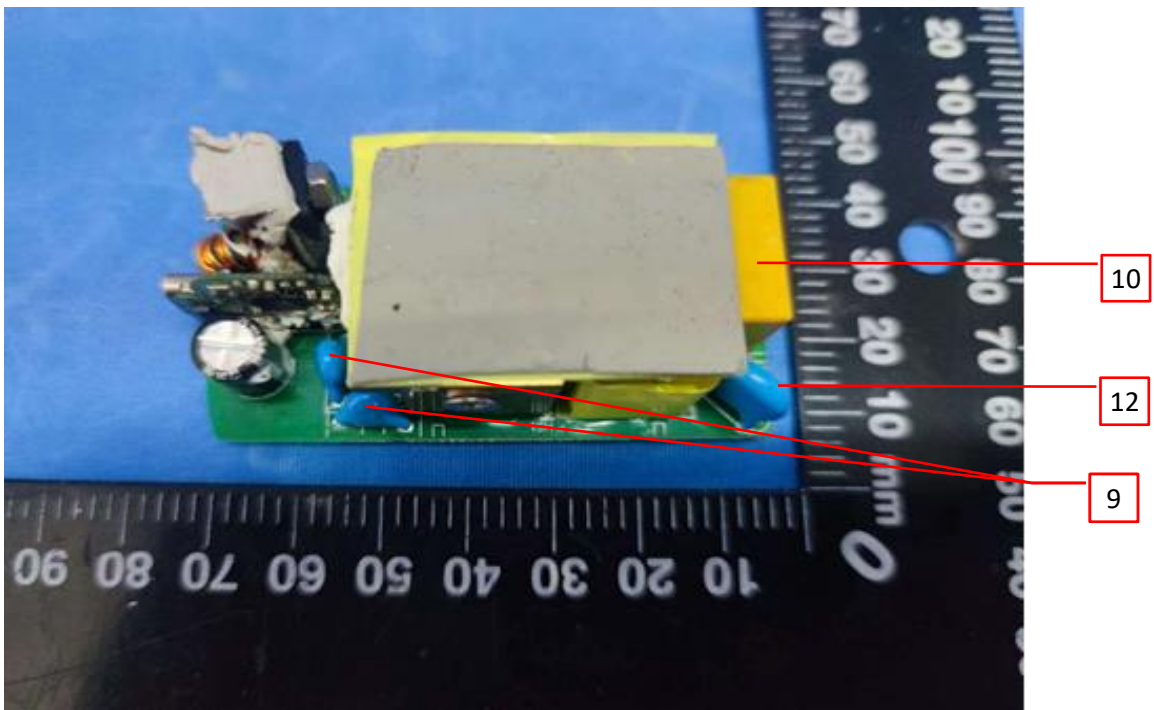


Photo 6 - PCB view of GTM96183-36PD-USB1C



3.0 Product Photographs

Photo 7 - PCB view of GTM96183-36PD-USB1C

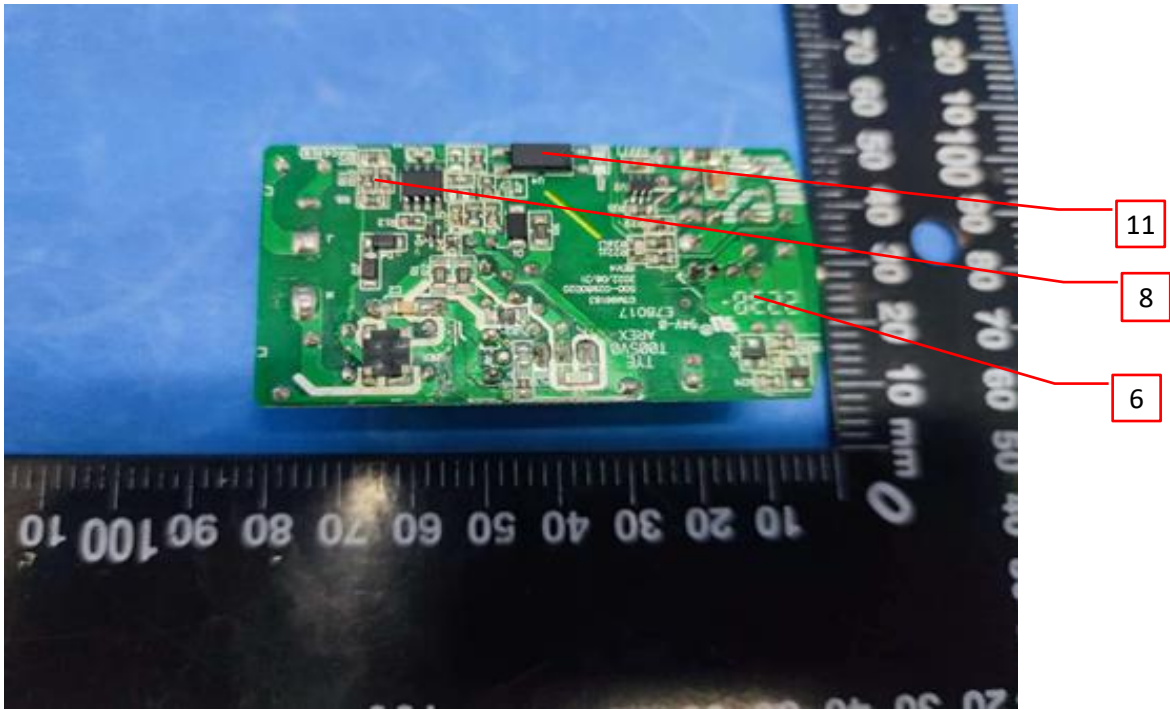


Photo 8 - External view of GTM96181-36PD-T3

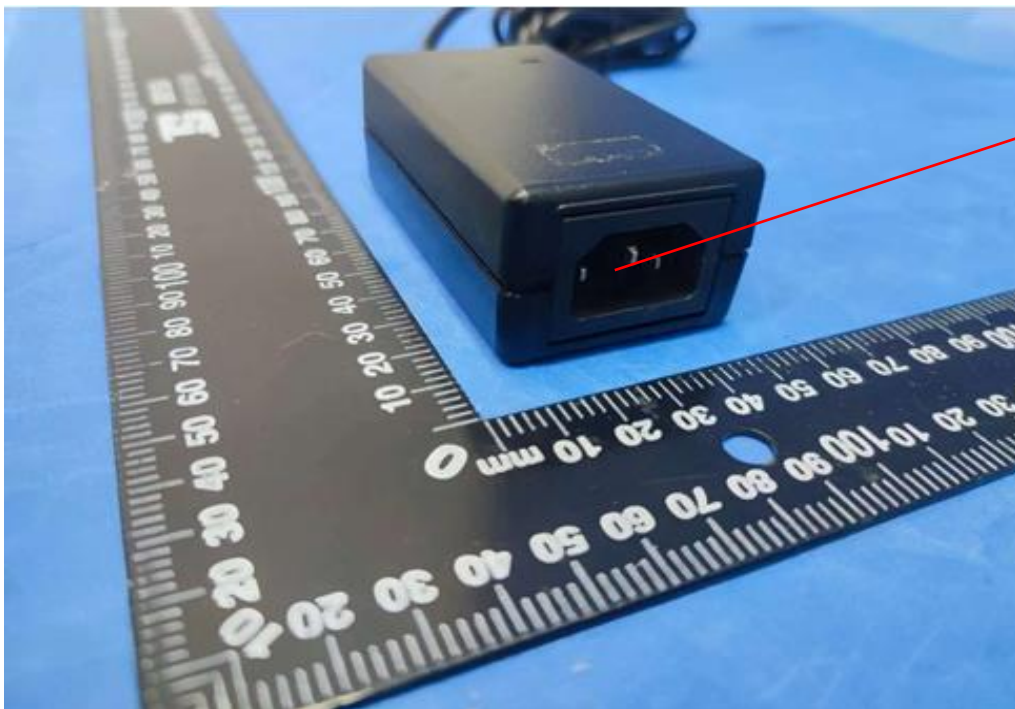


3.0 Product Photographs

Photo 9 - External view of GTM96181-36PD-T3



Photo 10 - External view of GTM96181-36PD-T3



3.0 Product Photographs

Photo 11 - Internal view of GTM96181-36PD-T3

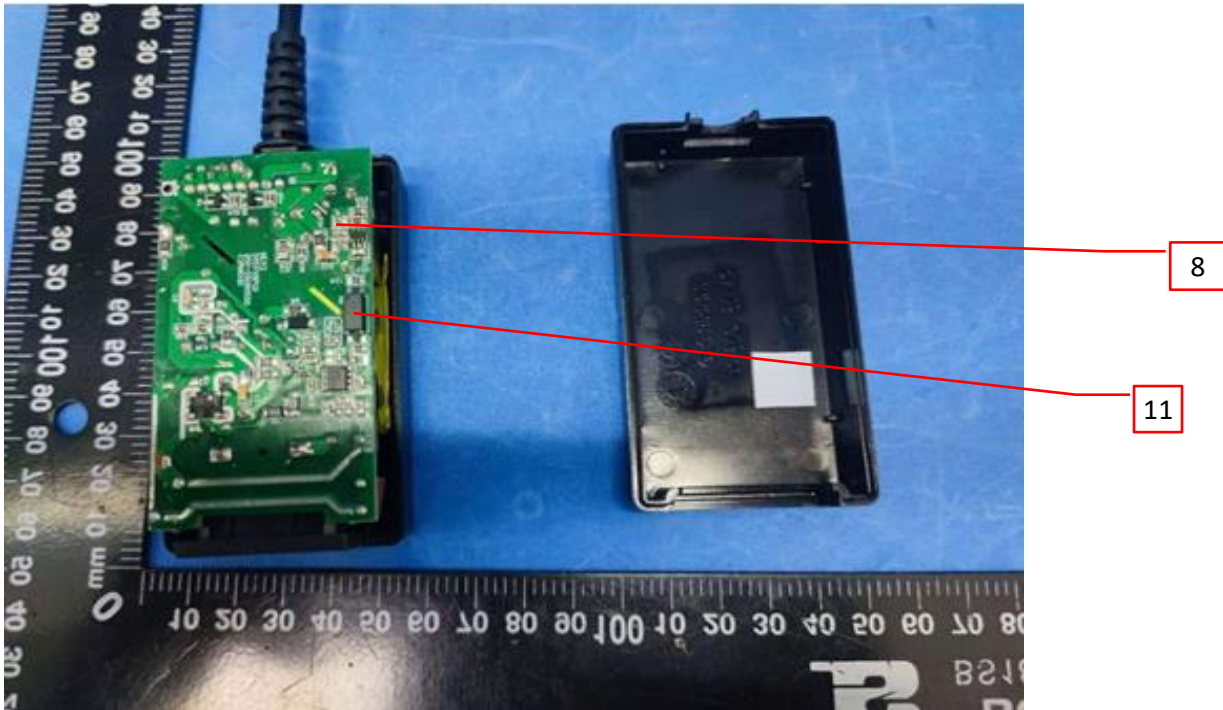
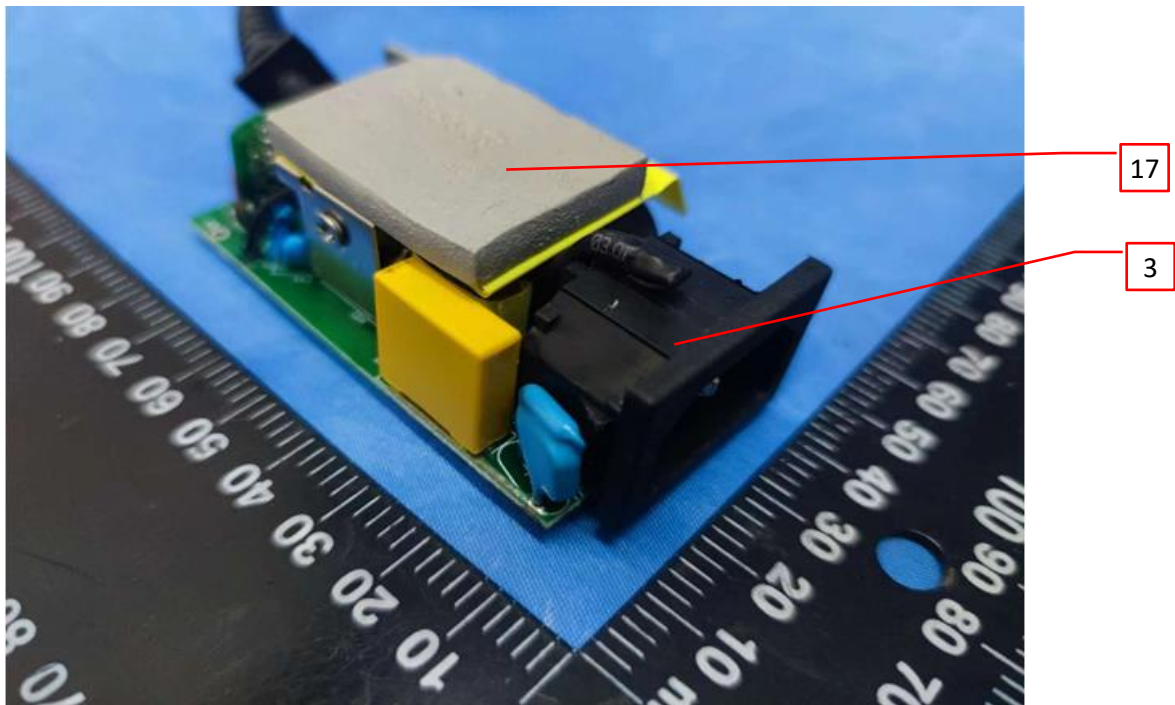


Photo 12 - Internal view of GTM96181-36PD-T3



3.0 Product Photographs

Photo 13 - Internal view of GTM96181-36PD-T3

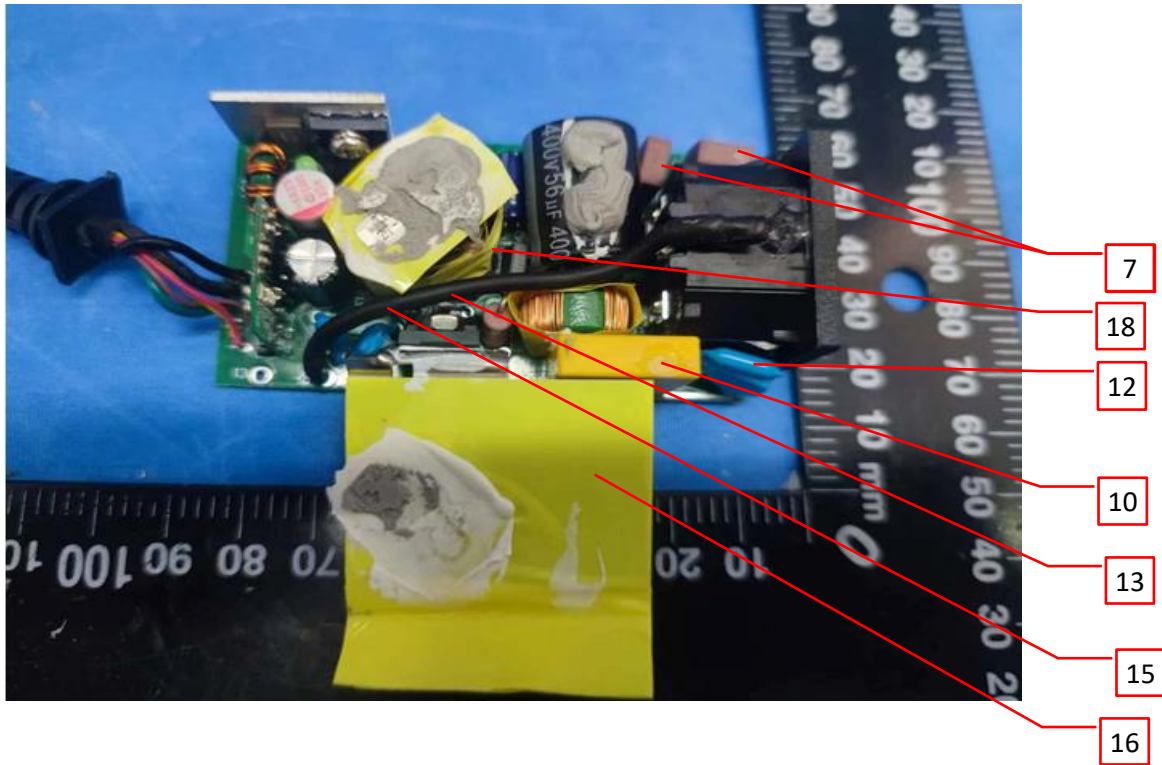
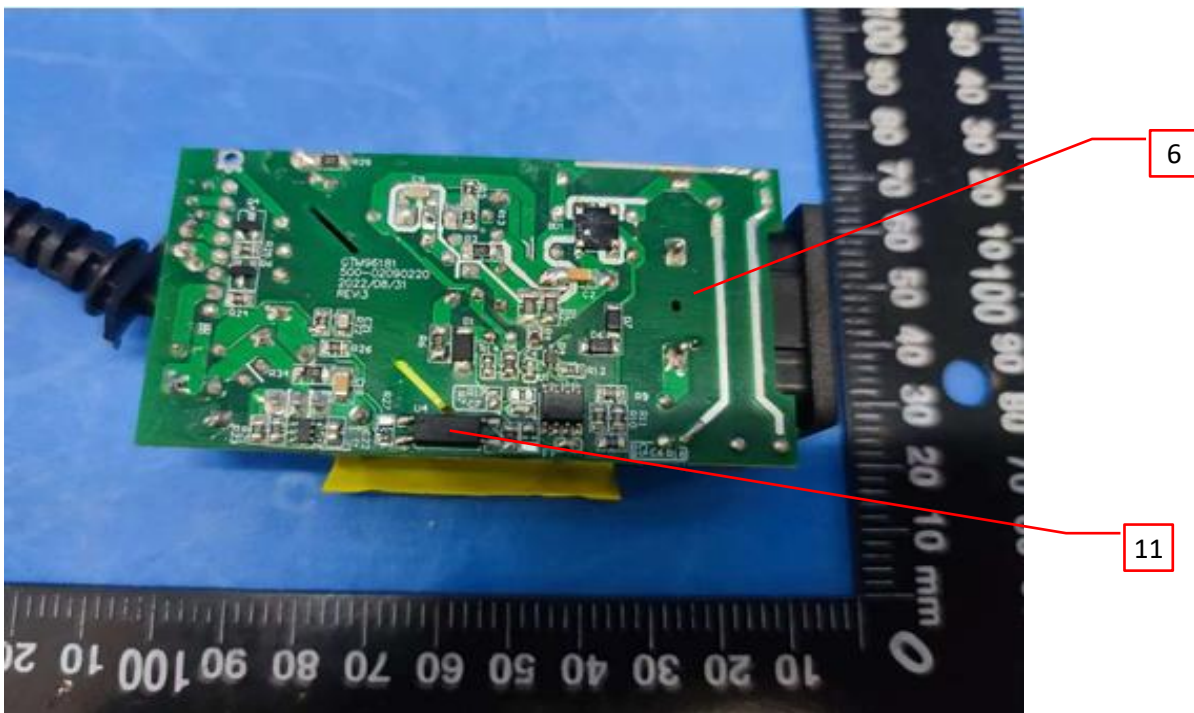


Photo 14 - Internal view of GTM96181-36PD-T3



3.0 Product Photographs

Photo 15 - External view of GTM96181-36PD-T2



Photo 16 - External view of GTM96181-36PD-T2



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3.0 Product Photographs

Photo 17 - External view of GTM96181-36PD-T2

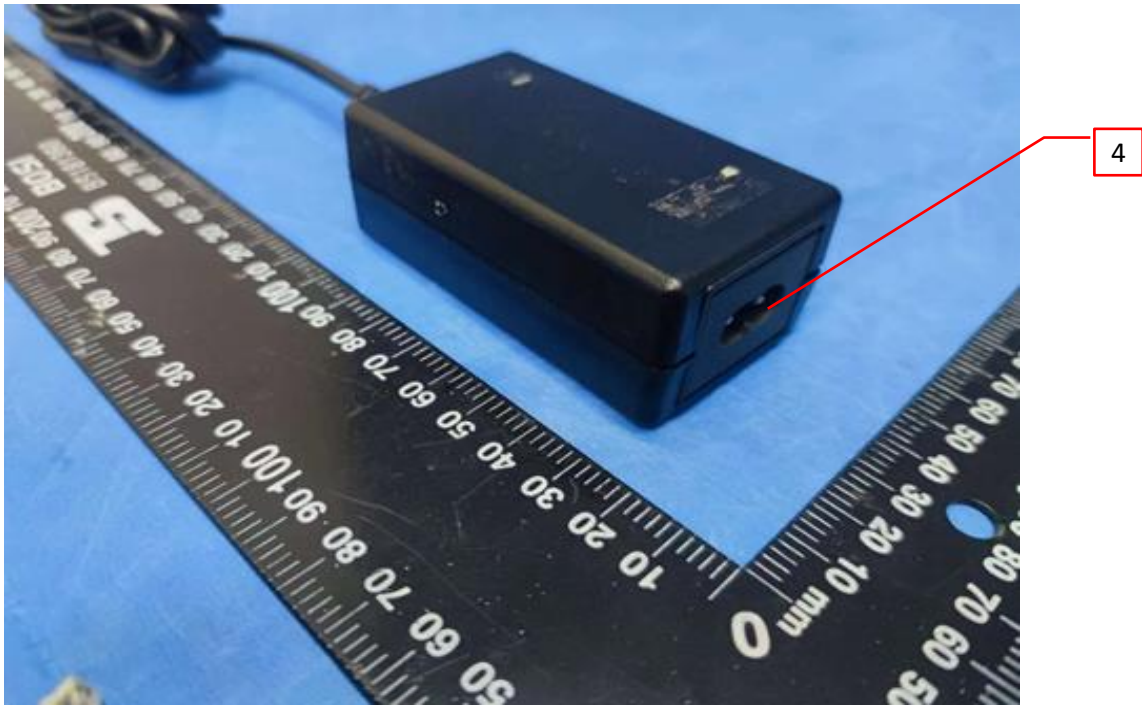
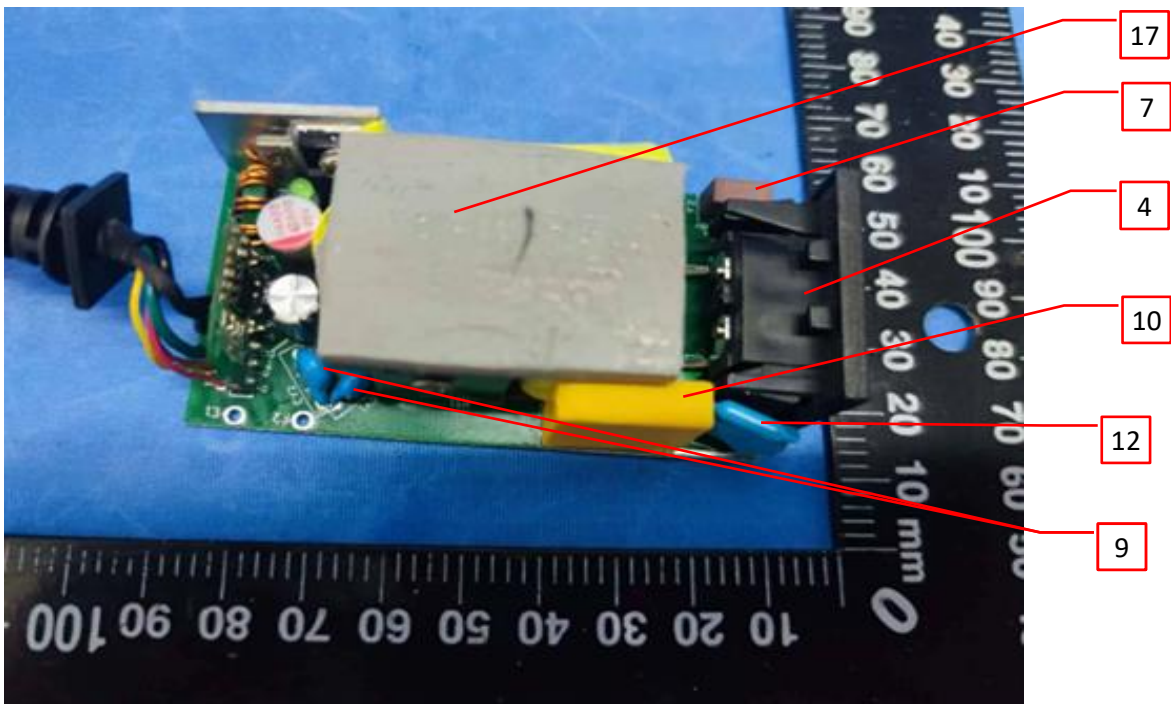


Photo 18 - Internal view of GTM96181-36PD-T2



3.0 Product Photographs

Photo 19 - PCB view of GTM96181-36PD-T2

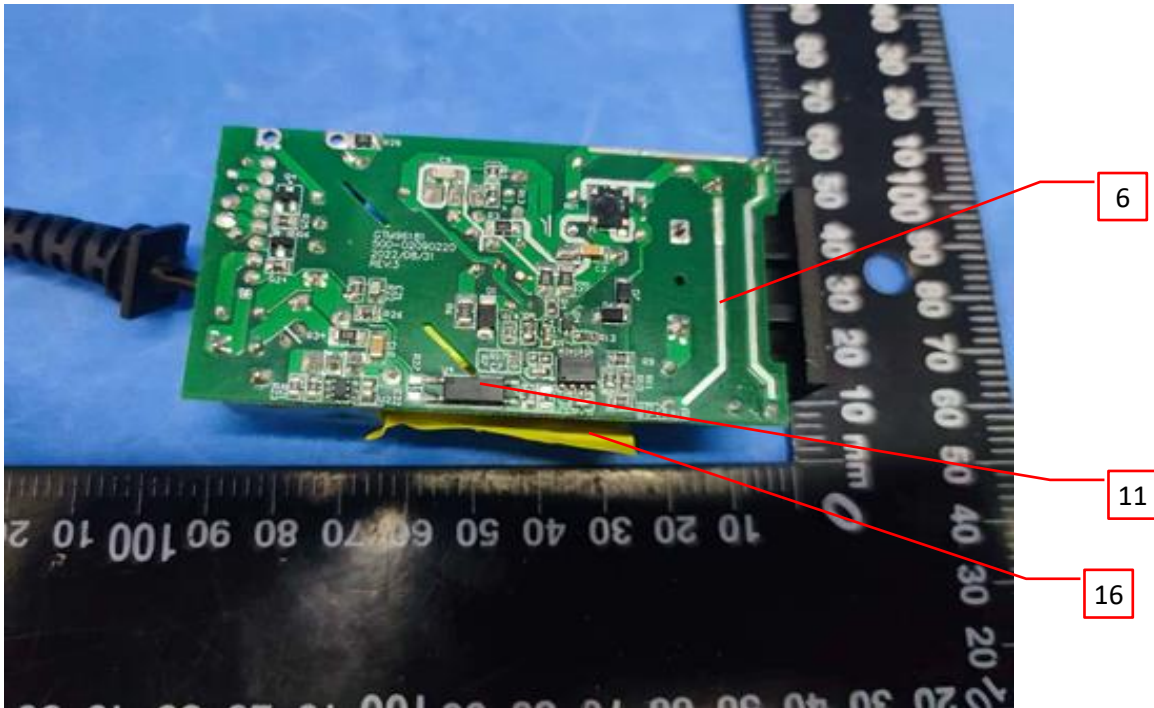


Photo 20 - External view of GTM96181-36PD



3.0 Product Photographs

Photo 21 - External view of GTM96181-36PD



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Photo 22 - External view of GTM96181-36PD

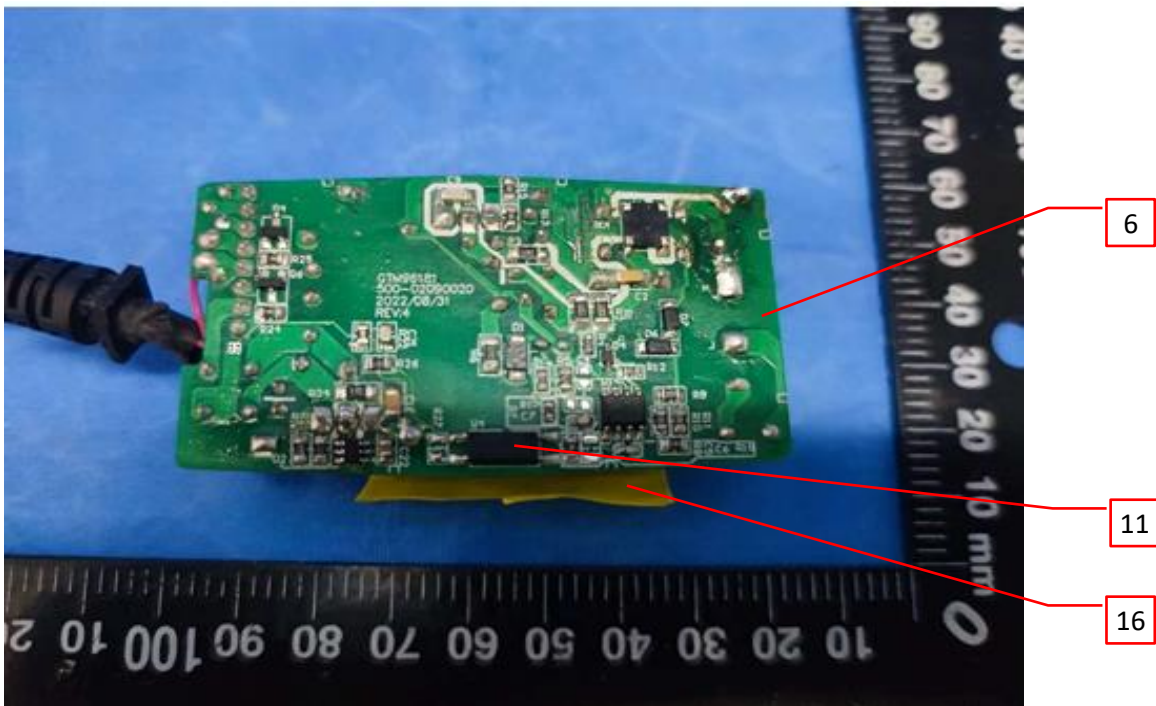


3.0 Product Photographs

Photo 23 - Internal view of GTM96181-36PD



Photo 24 - PCB view of GTM96181-36PD



3.0 Product Photographs

Photo 25 - PCB view of GTM96181-36PD

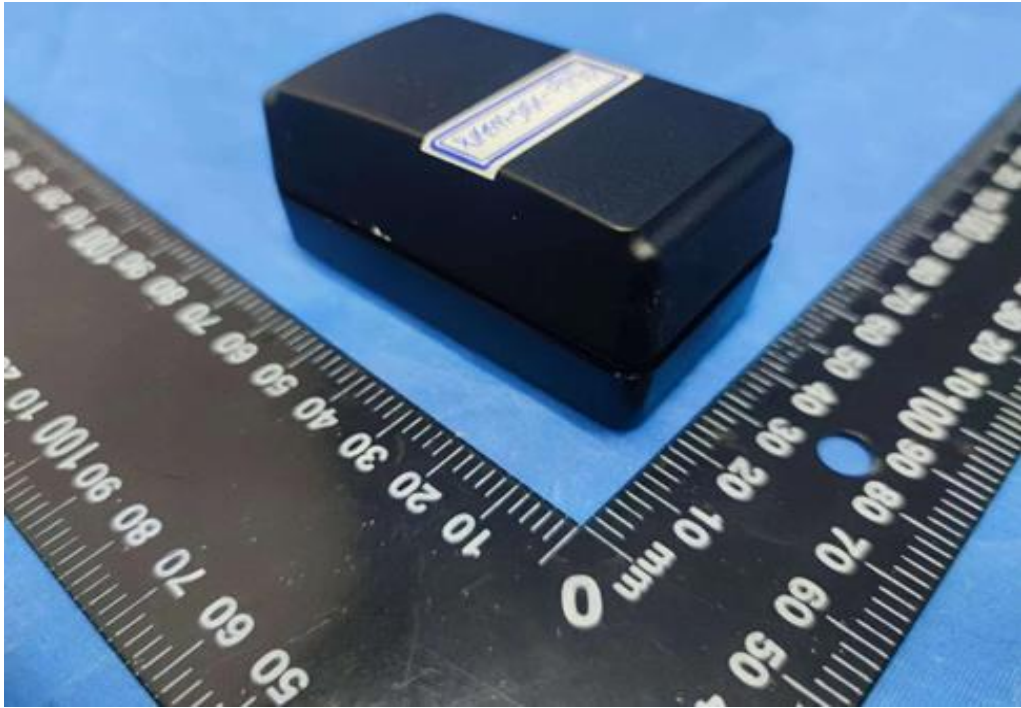
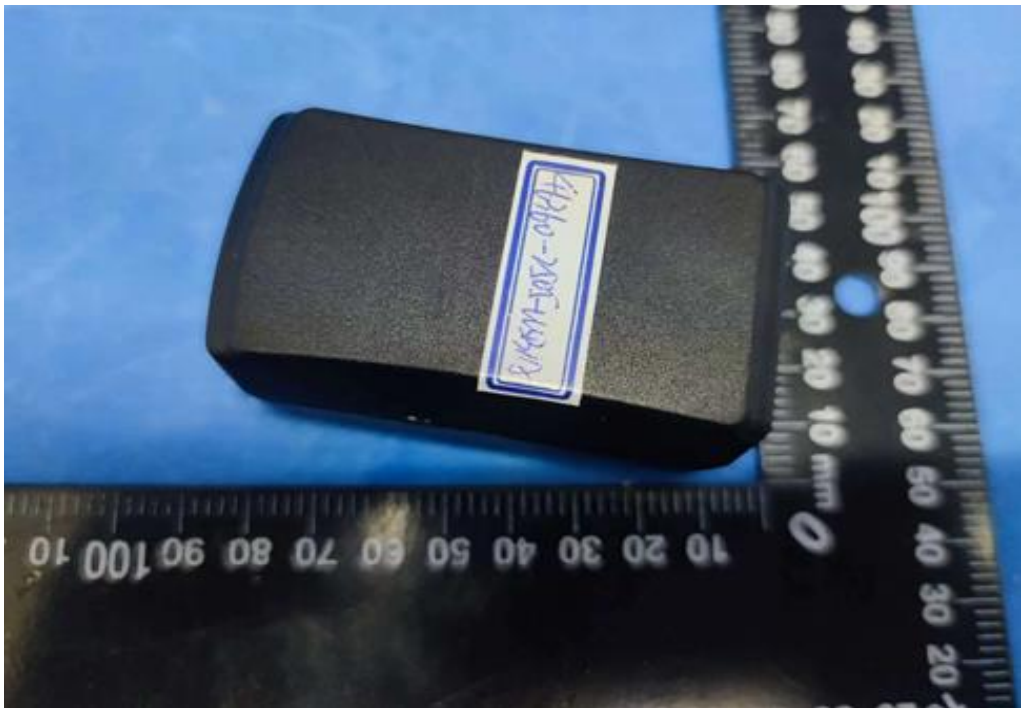


Photo 26 - PCB view of GTM96181-36PD



3.0 Product Photographs

Photo 27 - PCB view of GTM96181-36PD



Photo 28 - Internal view of GTM46360-2505-USB1A



3.0 Product Photographs

Photo 29 - PCB view of GTM46360-2505-USB1A



Photo 30 - External view of GTM46360-2505-USB1A



3.0 Product Photographs

Photo 31 - External view of GTM46360-3005-USB2A



Photo 32 - External view of GTM46360-3005-USB2C

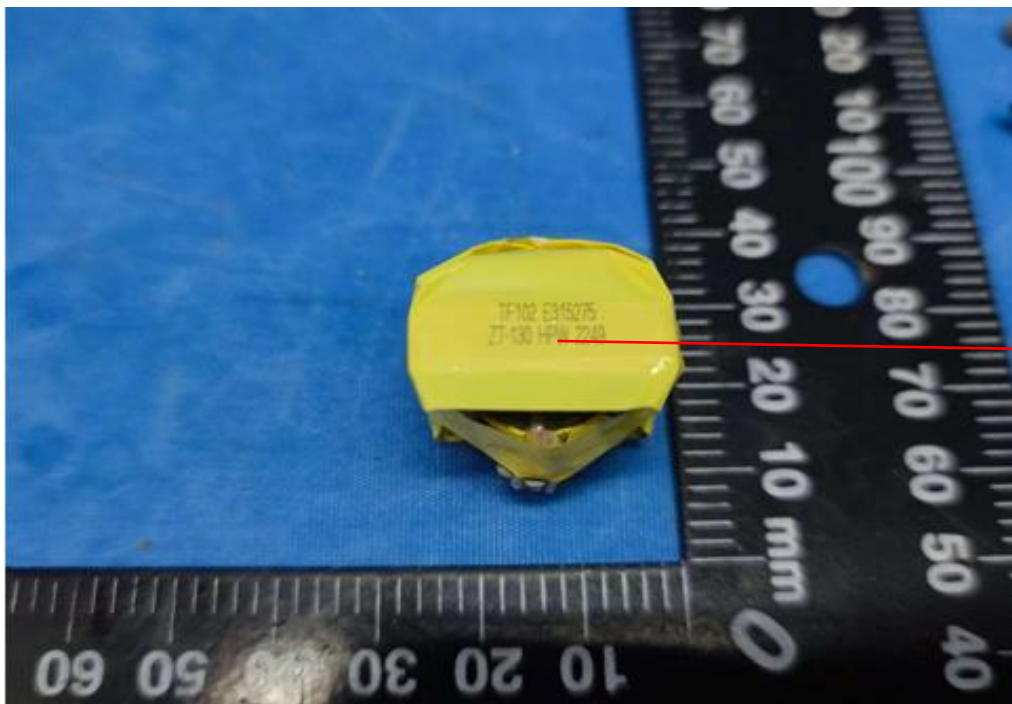


3.0 Product Photographs

Photo 33 - External view of GTM46360-3005-USB1A1C



Photo 34 - Transformer view of TF102



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3.0 Product Photographs

Photo 35 - Transformer view of TF102

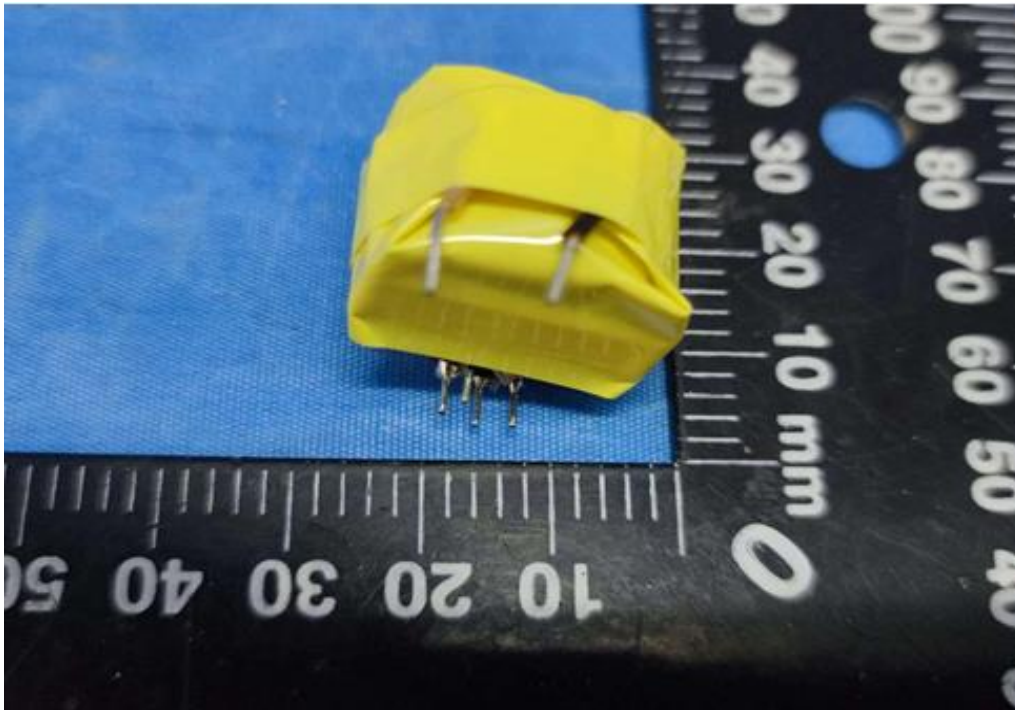
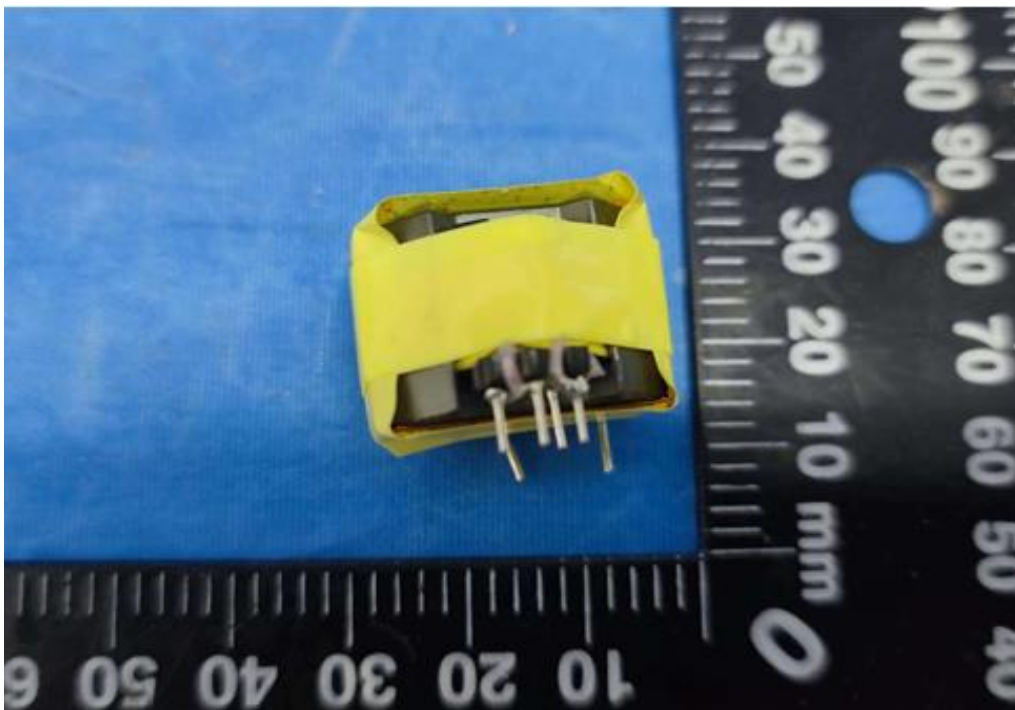


Photo 36 - Transformer view of TF102



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Photo 37 - Transformer view of TF102

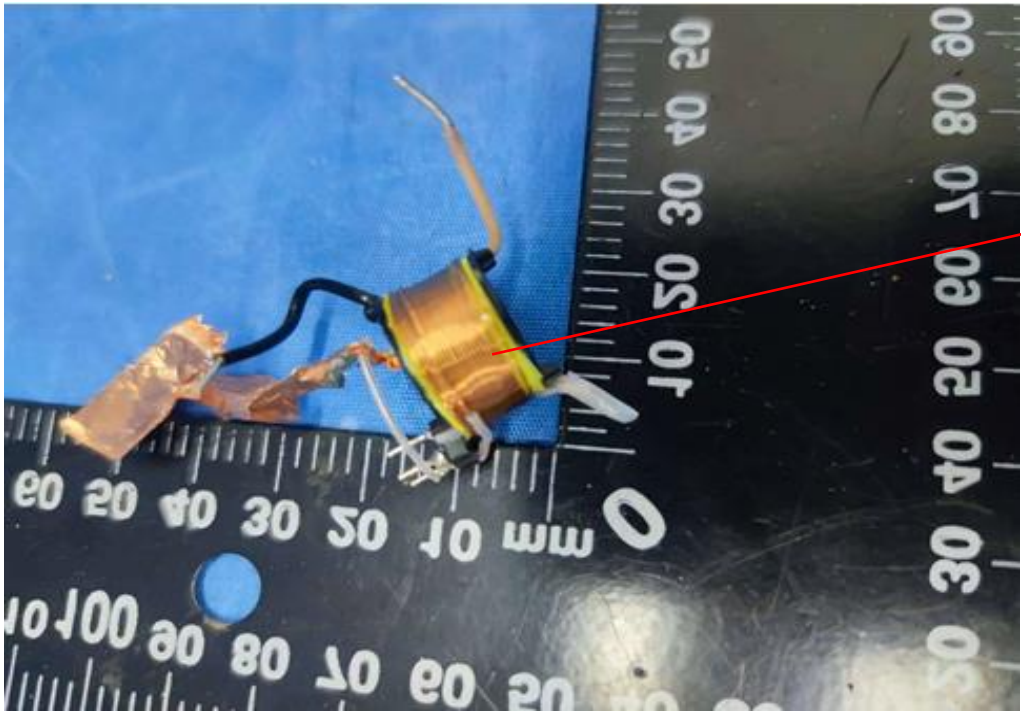


Photo 38 - Transformer view of TF102

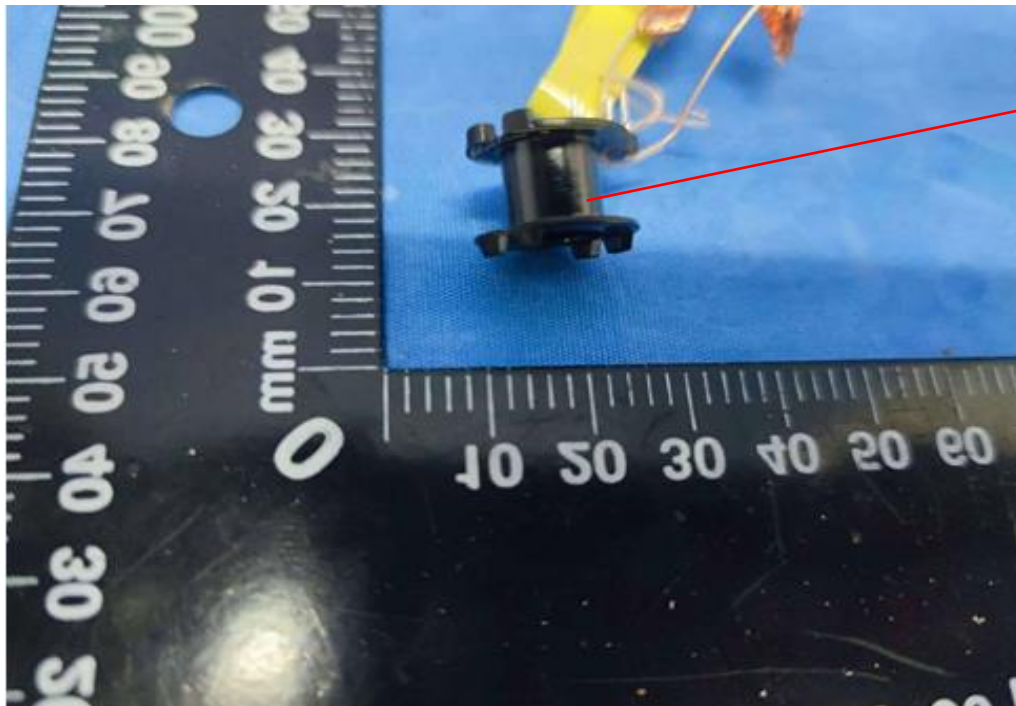


3.0 Product Photographs

Photo 39 - Transformer view of TF102

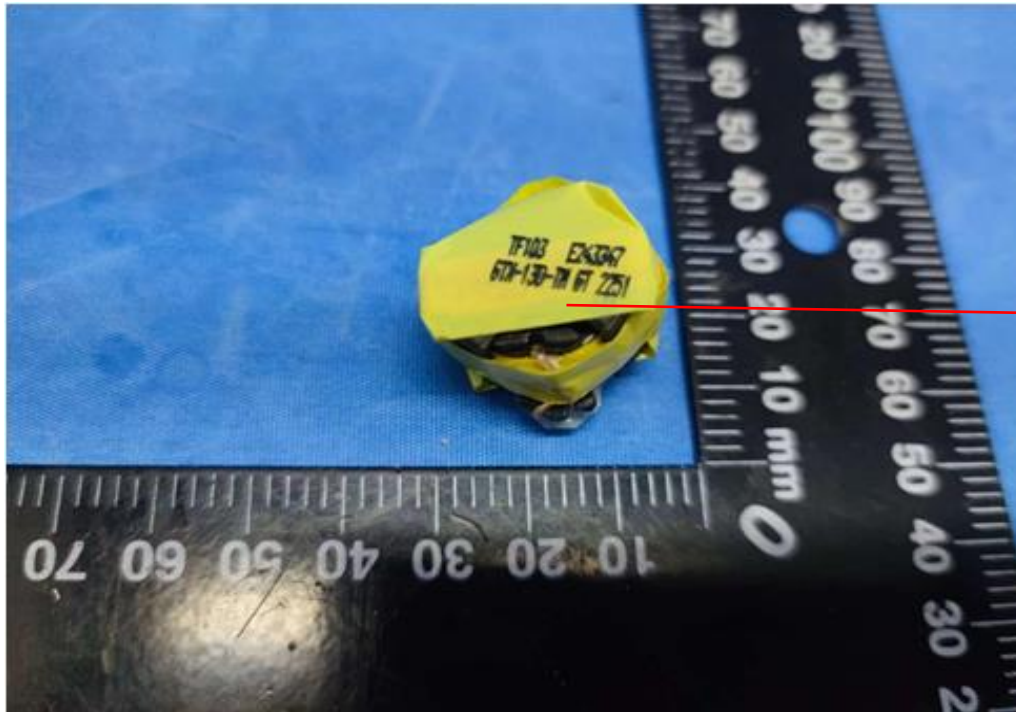


Photo 40 - Transformer view of TF102



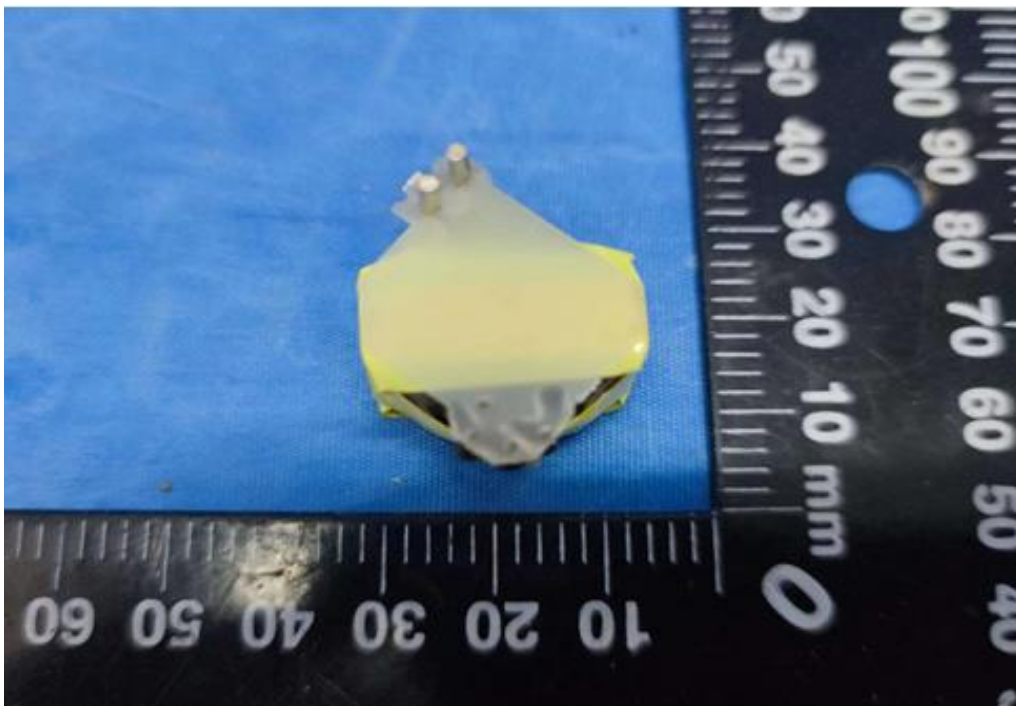
3.0 Product Photographs

Photo 41 - Transformer view of TF103



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Photo 42 - Transformer view of TF103



3.0 Product Photographs

Photo 43 - Transformer view of TF103

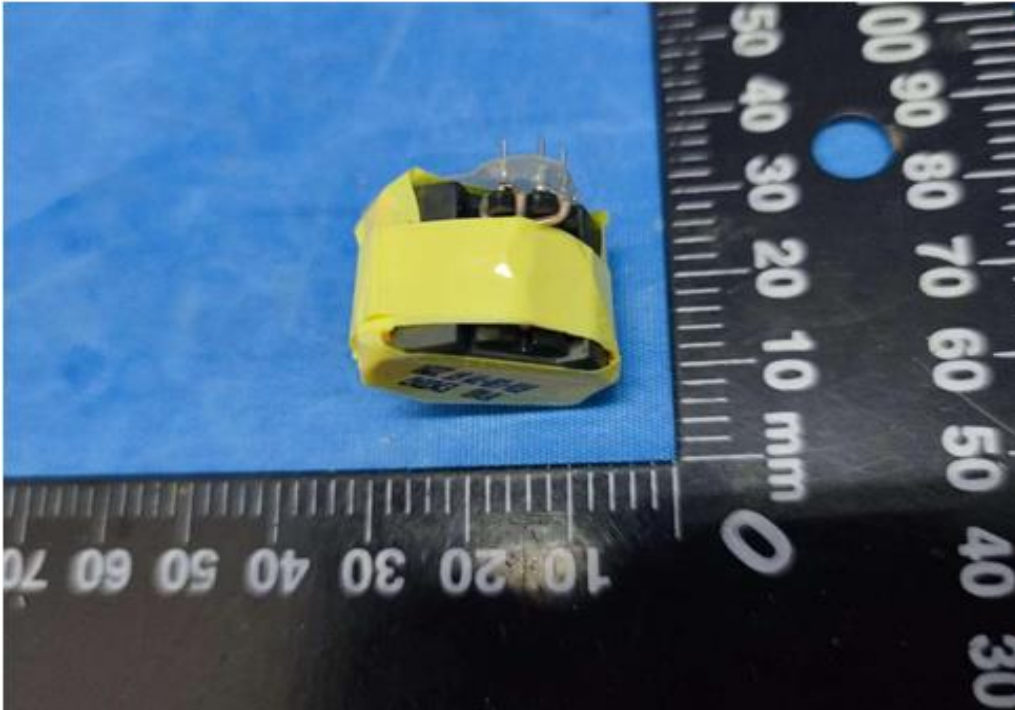
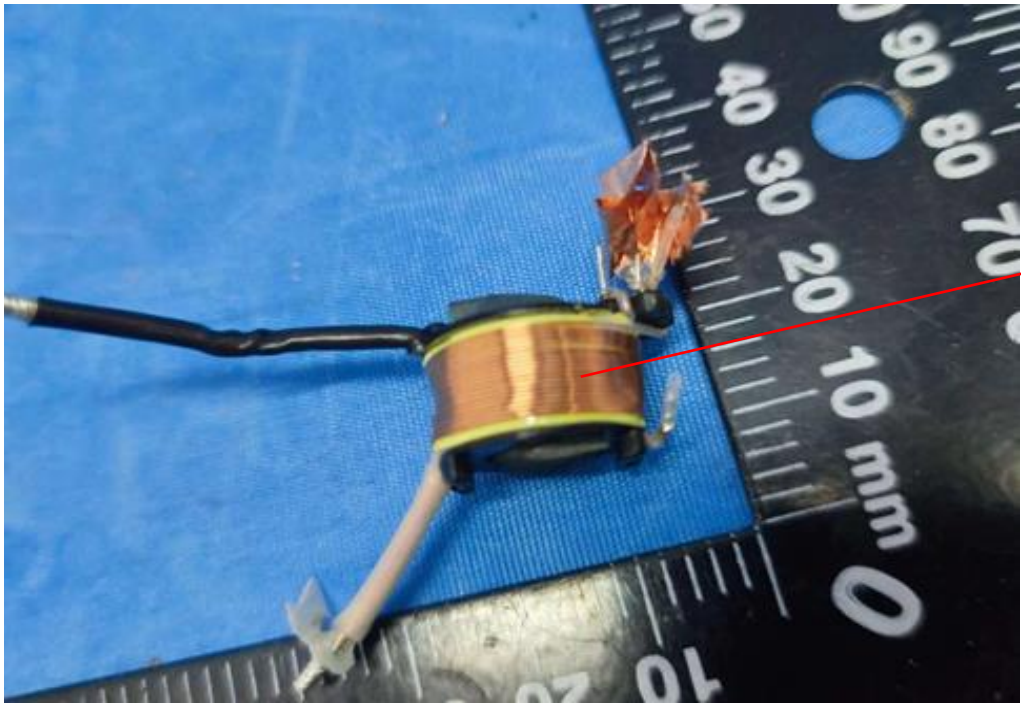


Photo 44 - Transformer view of TF103



3.0 Product Photographs

Photo 45 - Transformer view of TF103



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Photo 46 - Transformer view of TF103



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3.0 Product Photographs

Photo 47 - Transformer view of TF103



Photo 48 - Transformer view of TF123



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3.0 Product Photographs

Photo 49 - Transformer view of TF123

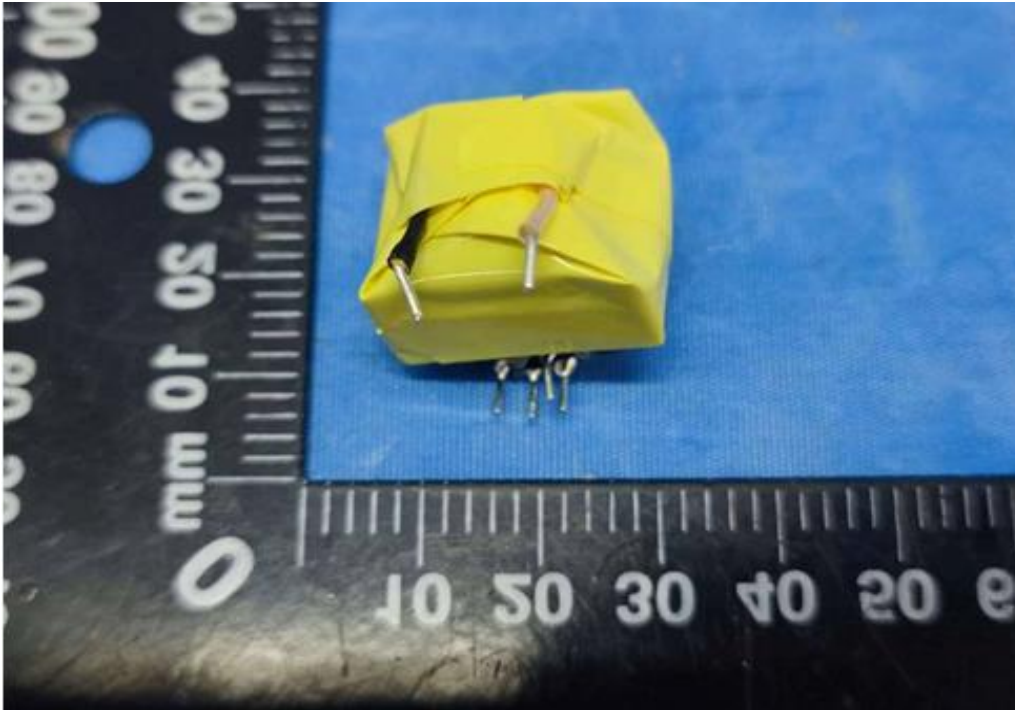


Photo 50 - Transformer view of TF123



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Photo 51 - Transformer view of TF123

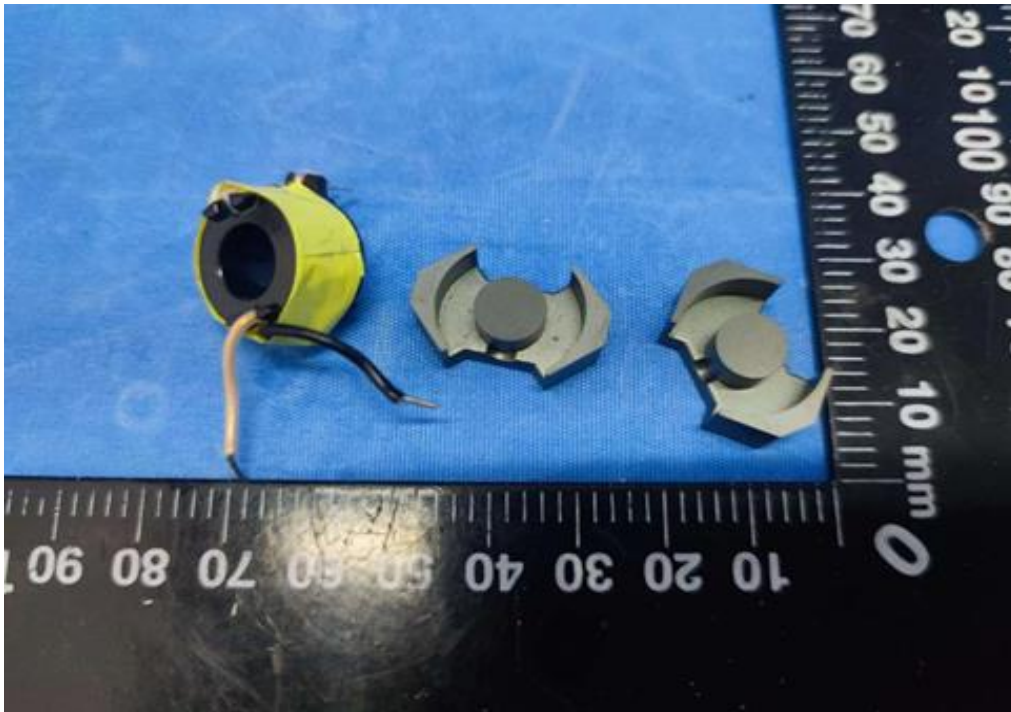
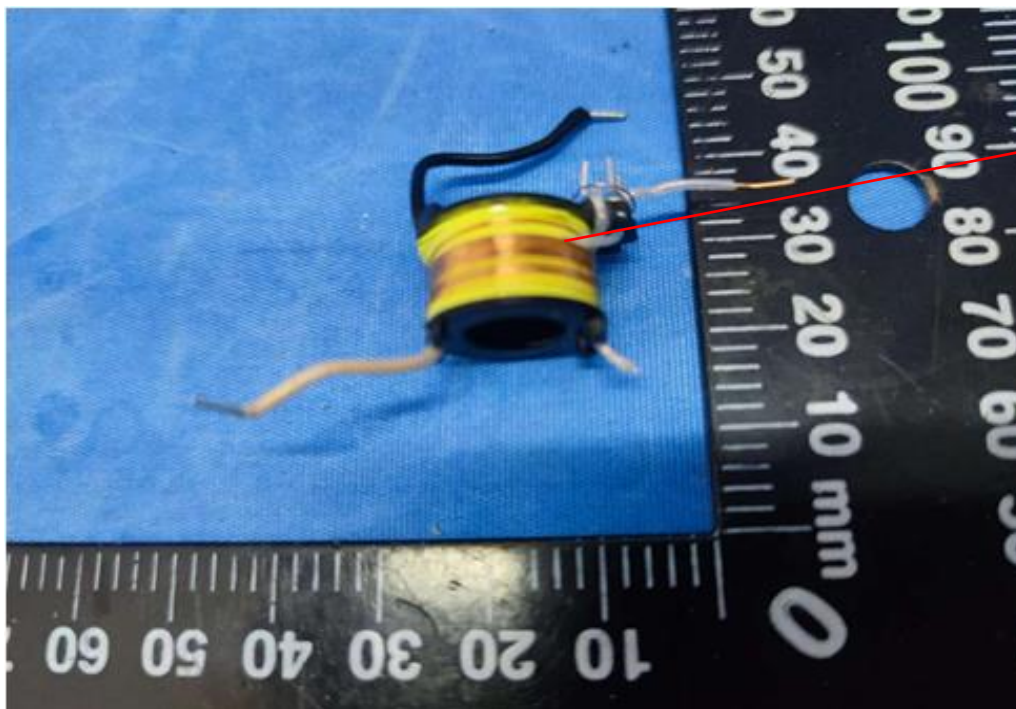


Photo 52 - Transformer view of TF123



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3.0 Product Photographs

Photo 53 - Transformer view of TF123

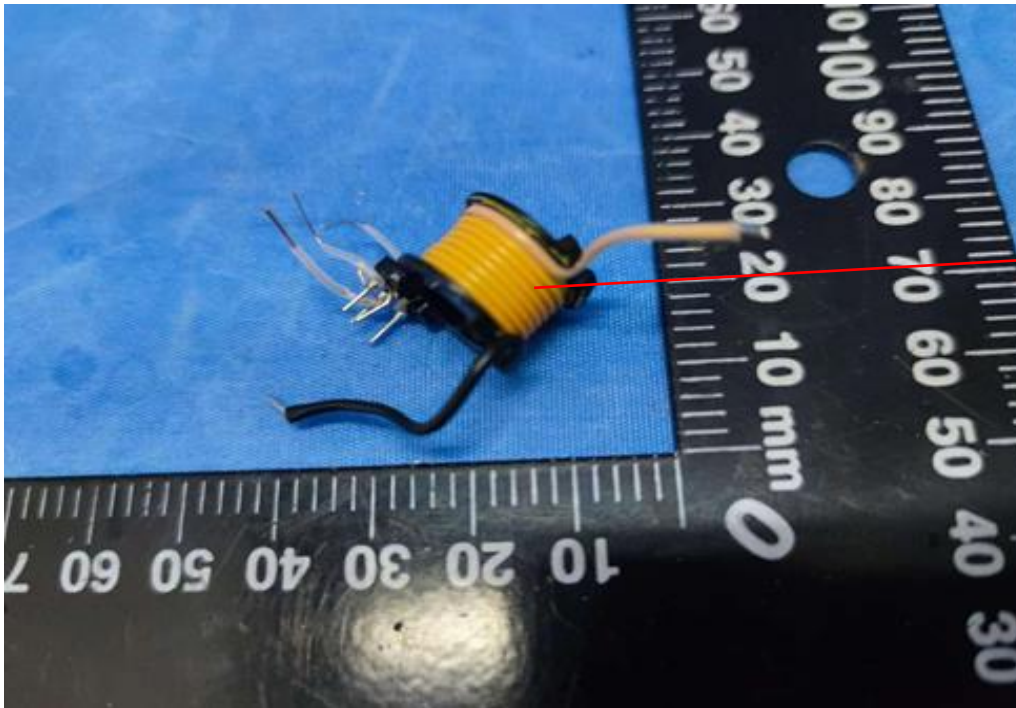
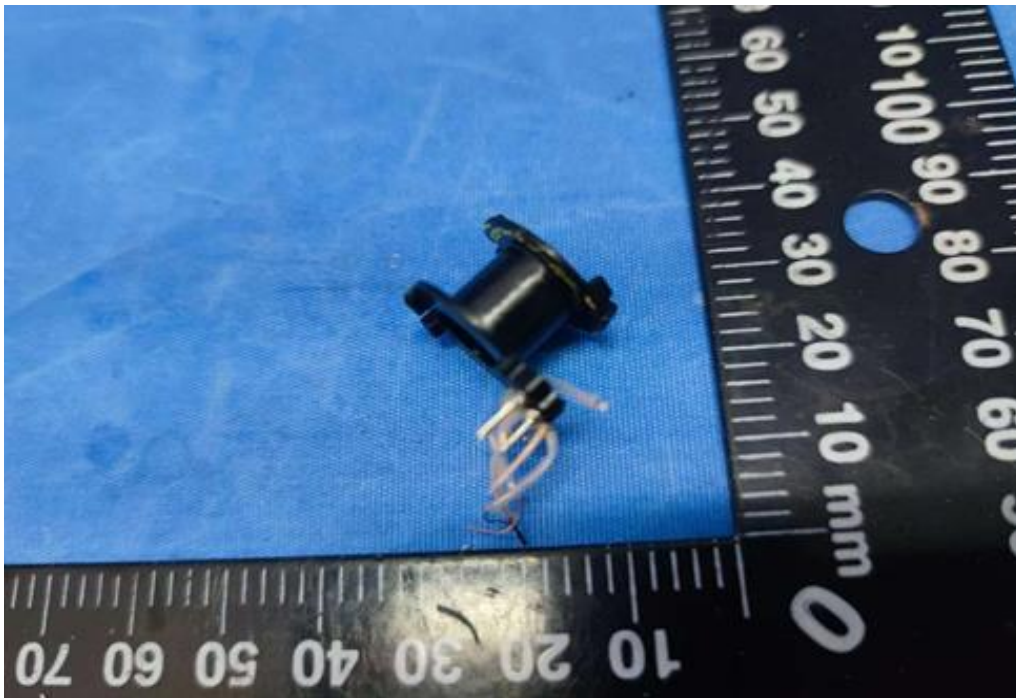


Photo 54 - Transformer view of TF123



3.0 Product Photographs

Photo 55 - External view of GTM96181-18PD-T3A

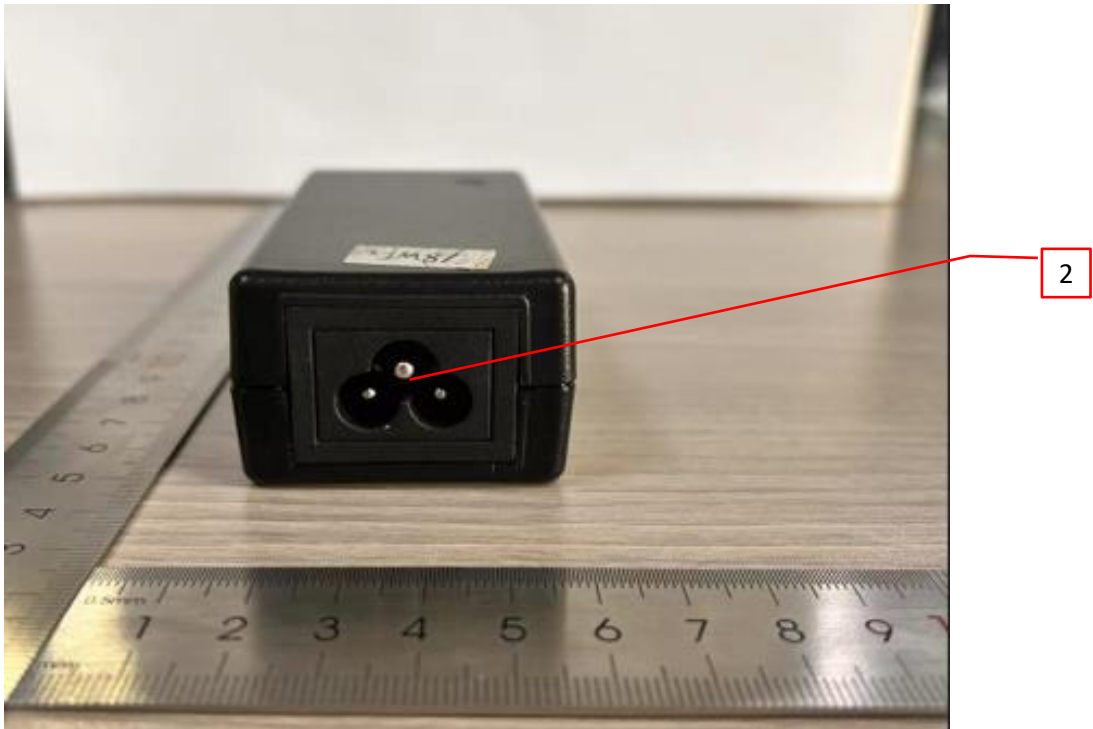
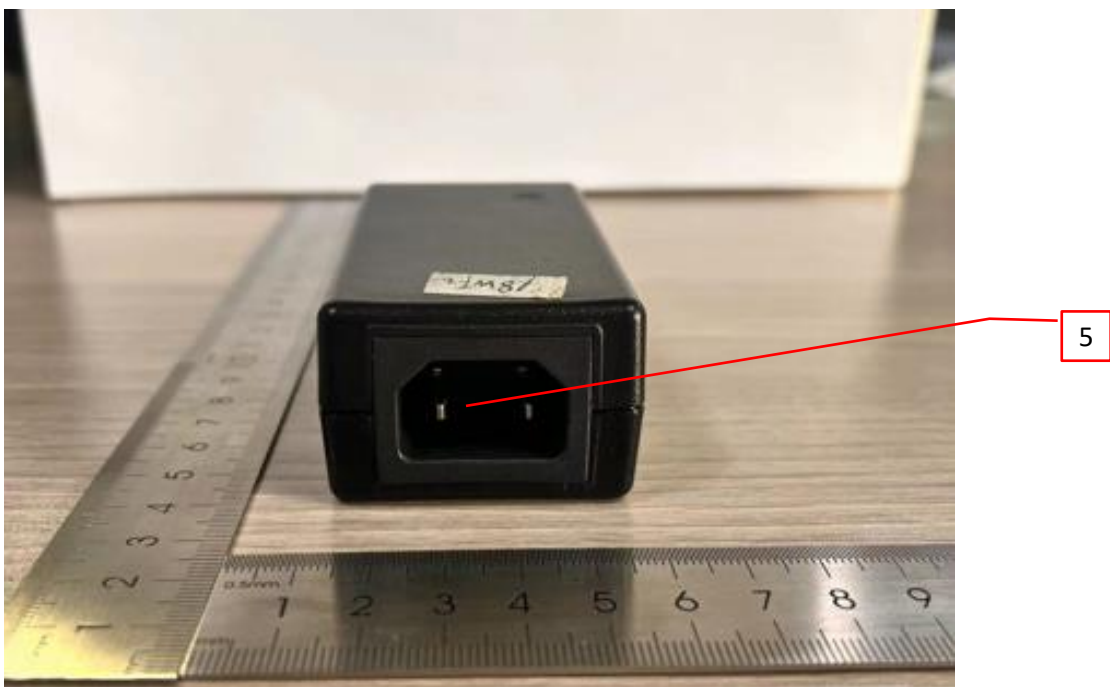


Photo 56 - External view of GTM96181-18PD-T2A



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, 2	1	Plastic enclosure	SABIC JAPAN L L C	945	V-0, 120°C, Min. thickness: 2.0mm	cURus
			SABIC INNOVATIVE PLASTICS B V	945	V-0, 90°C, Min. thickness: 2.0mm	cURus
				C2950		cURus
				CX7211		cURus
55	2	AC inlet 1	LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac, for CN1 Class I units (C6 type)	cURus
			Rich Bay Co., Ltd.	R-30790	2.5A, 250Vac, for CN1 Class I units (C6 type)	cURus
				R-307		cURus
		TECX-UNIONS Technology Corporation	TU-333	2.5A, 250Vac, for CN1 Class I units (C6 type)	cURus	
10, 12	3	AC inlet 2	Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac, for CN1 Class I units (C14 type)	cURus
			Rich Bay Co., Ltd.	R-301SN	10A, 250Vac, for CN1 Class I units (C14 type)	cURus
			TECX-UNIONS Technology Corporation	TU-301-S	10A, 250Vac, for CN1 Class I units (C14 type)	cURus
				TU-301-SP		
17, 18	4	AC inlet 3	LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac, for CN1 Class II units (C8 type)	cURus
			Rich Bay Co., Ltd.	R-201SN90	2.5A, 250Vac, for CN1 Class II units (C8 type)	cURus
			Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01	2.5A, 250Vac, for CN1 Class II units (C8 type)	cURus
			TECX-UNIONS Technology Corporation	SO-222	2.5A, 250Vac, for CN1 Class II units (C8 type)	cURus
56	5	AC inlet 4	Rong Feng Industrial Co., Ltd	SS-120	10A, 250V, for CN1 Class II units (C18 type)	cURus
			HCR ELECTRONICS CO., LTD	SK05	10A, 250V, for CN1 Class II units (C18 type)e)	cURus
7, 14, 19, 24, 29	6	PCB	SHUANG MING INDUSTRY CO LTD	T005V0	V-0, 130°C, Min. 1.6 mm thickness	cURus
				T015V0		
				T016V0		
		GUANGDE BOYA XINXING ELECTRONIC TECHNOLOGY CO LTD	BY-1	V-0, 130°C, Min. 1.6 mm thickness	cURus	
		JIANGXI ZHONG XIN HUA ELECTRONICS INDUSTRY CO LTD	ZXH-2	V-0, 130°C, Min. 1.6 mm thickness	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
			SHENZHEN JIA LI CHUANG TECHNOLOGY DEVELOPMENT CO LTD	JLC-1	V-0, 130°C, Min. 1.6 mm thickness	cURus
			Various	Various	Min. V-0, Min.130°C, Min. 1.6 mm thickness	cURus
13, 18	7	Fuse	SUZHOU WALTER ELECTRONIC CO LTD	2010	T2A, 250Vac (F1, F2) (F2 is optional)	cURus
			Conquer Electronics Co., Ltd.	MST	T2A, 250Vac (F1, F2) (F2 is optional)	cURus
				MET		
7, 11	8	Bleeder Resistor	Yageo Corporation	RV series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
			Ralec Electronic Corp	RTV series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
			Guangdong Fenghua Advanced Technology Holding Co.,Ltd.	RVS series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
			Viking Tech Corporation Kaoshiung Branch	HVRC series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
			VIKING ELECTRONICS (WUXI) CO., LTD.	SWR series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
			WALSIN TECHNOLOGY CORP	WF series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
			Yageo Corporation	AH series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
			PDC	FVS series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
				TF series	20KΩ, Max.1/2W (R9,R10,R11,R18)	cURus
6, 18	9	Y capacitor	Success Electronics Co., Ltd.	SE	250Vac, 125°C, Max. 1500pF (CY1, CY2) (Optional)	cURus
				SB		cURus
				SF		cURus
			TDK CORPORATION	CD	250Vac, 125°C, Max. 1500pF (CY1, CY2) (Optional)	cURus
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	CD	250Vac, 125°C, Max. 1500pF (CY1, CY2) (Optional)	cURus
CE	250Vac, 125°C, Max. 1500pF (CY1, CY2) (Optional)	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
			Haohua Electronic Co.	CT 7	250Vac, 125°C, Max. 1500pF (CY1, CY2) (Optional)	cURus
6, 13, 18	10	X capacitor	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	275Vac, 110°C, Max. 0.33uF (CX1) (Optional)	cURus
				MKP		
				CD		
				CE		
				DSY		
			Cheng Tung Industrial Co., Ltd.	CTX	275Vac, 110°C, Max. 0.33uF (CX1) (Optional)	cURus
			Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	275Vac, 110°C, Max. 0.33uF (CX1) (Optional)	cURus
			Dain Electronics Co., Ltd.	MEX	275Vac, 110°C, Max. 0.33uF (CX1) (Optional)	cURus
MPX						
NPX						
HUA JUNG COMPONENTS CO LTD	MKP	275Vac, 110°C, Max. 0.33uF (CX1) (Optional)	cURus			
7, 11, 14, 19, 24	11	Optocoupler	Everlight Electronics Co., Ltd.	EL1019	Ex≥8.0 mm, in≥0.4 mm, 110°C, (U4)	cURus
			VISHAY	TCLT1009	Ex≥8.0 mm, in≥0.4 mm, 110°C, (U4)	cURus
				VOL618A		
Lite-ON	LTV-1009	Ex≥8.0 mm, in≥0.4 mm, 110°C, (U4)	cURus			
6, 13, 18	12	Varistor MOV1	Thinking Electronic Industrial Co., Ltd.	TVR10471K	300Vac, coating, Min. V-0, min. 85 °C, 6KV/3KA, pulse test passed	cURus
				TVR14471K		cURus
				TFV10S471K		cURus
				TVR10621K		cURus
			Thinking Electronic Industrial Co., Ltd.	TVR10471-M	300Vac, coating, Min. V-0, min. 125 °C, 6KV/3KA, pulse test passed	cURus
			Thinking Electronic Industrial Co., Ltd.	TVT14471	300Vac, coating, Min. V-0, min. 105 °C, 6KV/3KA, pulse test passed	cURus
			XIAMEN SET ELECTRONICS CO LTD	TFV8S471K	300Vac, coating, Min. V-0, min. 125 °C, 6KV/3KA, pulse test passed	cURus
TFV10S471K						

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
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	10D471K	300Vac, coating, Min. V-0, min. 125 °C, 6KV/3KA, pulse test passed	cURus
				10D621K		cURus
			Guangdong Huiwan Electronics Technology Co Ltd	V-471K-10D	300Vac, coating, Min. V-0, min. 85 °C, 6KV/3KA, pulse test passed	cURus
				V-471K-10E		
V-471K-14D						
V-471K-14E						
13	13	Earthing wire	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015	Min. 18AWG, Min. 300V, Min. 80°C (for Class I model) (wrapped in insulating tube 1)	cURus
				1007		
				1185		
		Various	Various	Min. 18AWG, Min. 300V, Min. 80°C (for Class I model) (wrapped in insulating tube 1)	cURus	
8, 16, 21	14	Output cord	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	1185	Min. 24AWG, min. 300Vac, min. 80°C	cURus
				2464		
				2468		
				1015		
		Various	Various	Min. 24AWG, min. 300Vac, min. 80°C	cURus	
13	15	Insulating Tube 1	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR	600V, 125°C (for earth wire)	cURus
				RSFR-H		
				RSFR-HPF		
5, 13, 19, 24	16	Tape 1	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ	Min.130°C (for HS1)	cURus
				CT		
			CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX*	Min.130°C (for HS1)	cURus
5, 12, 18	17	Thermal conductive pad	Suzhou Springgrass Electronic Technology Co., LTD	H RTP-M16	V-0, 130°C, Min. thickness: 5.8mm	cURus
			PIONEER MATERIAL PRECISION TECH	PMP-P-300	V-0, 130°C, Min. thickness: 5.8mm	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
			SUZHOU HUIMEI PACKAGING PRODUCTS CO LTD	HM-300	V-0, 130°C, Min. thickness: 5.8mm	cURus
13, 34, 41, 48	18	Transformer	GlobTek	TF103	Class B, I/P: 100-240VAC, 0.75A; O/P: 3-6VDC, Max.6A, Max.30W, See illustration 7-8 for details, (T1)(for GTM46360 series)	NR
			Shan Dong Boam Electric Co Ltd			
			WUXI HAOPUWEI ELECTRONICS CO.,LTD	TF102	Class B, I/P: 100-240VAC, 1.2A; O/P: 5-21VDC, Max 3.0A, Max.36W, See illustration 9-10 for details, (T1)(for GTM96181 series)	NR
			GlobTek			
			Shan Dong Boam Electric Co Ltd	TF123	Class B, I/P: 100-240VAC, 1.2A; O/P: 5-21VDC, Max 3.0A, Max.36W, See illustration 11-12 for details, (T1)(for GTM96183 series)	NR
			WUXI HAOPUWEI ELECTRONICS CO.,LTD			
			34	19	Insulation system (not shown)	GLOBTEK INC
SHAN DONG BOAM ELECTRIC CO LTD	BOAM-01	Class B				cURus
WUXI HAOPUWEI ELECTRONICS CO LTD	ZT-130	Class B				cURus
37, 45, 52	20	Magnet wire	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C (for primary)	cURus
			JIANGSU DARTONG M & E CO LTD	UEW	MW75#, 130°C (for primary)	cURus
			SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C (for primary)	cURus
			NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	MW79#, 130°C (for primary)	cURus
38, 46, 53	21	Triple insulated wire	Great Leoflon Industrial Co., Ltd.	TRW (B)	Class B, 130°C, reinforced insulation (for Secondary)	cURus
			Furukawa Electric Co., Ltd.	TEX-E	Class B, 130°C, reinforced insulation (for Secondary)	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
40	22	Bobbin	CHANG CHUN PLASTICS CO LTD	T375J T375HF	V-0, 150°C, thickness 0.45 mm min.	cURus
			CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0.74 mm min.	cURus
			SUMITOMO BAKELITE CO LTD	PM-9820 PM-9630	V-0, 150°C, thickness 0.45 mm min.	cURus
40	23	Insulating tape (not shown)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 1350T-1 44	Min.130°C	cURus
			JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT WF	Min.130°C	cURus
			HUIZHOU YAHUA ELECTRONIC TECHNOLOGY CO LTD	CT	Min.130°C	cURus
40	24	PTFE tubing (not shown)	Great Holding Industrial Co Ltd	TFT TFS	Min. 300V, 200°C	cURus
			Shenzhen Woer Heat-Shrinkable Material Co Ltd	WF	600V, 200°C	cURus
			Changyuan Electronics (Shenzhen) Co Ltd	CB-TT-T CB-TT-S	Min. 300V, 200°C	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 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
<p><u>Recognized Component</u> - 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.</p>
<p><u>Listed Component</u> - 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.</p>
<p><u>Unlisted Component</u> - 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.</p>
<p><u>Critical Features/Components</u> - 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.</p>
<p><u>Construction Details</u> - 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.</p>
<p>1. <u>Spacing</u> - In primary circuits, 2.0 mm minimum spacing are maintained through air between current-carrying parts of opposite polarity and 4.0 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits. In primary circuits, 2.5 mm minimum spacing are maintained over surfaces of insulating material between current-carrying parts of opposite polarity and 5.0 mm minimum between such current-carrying parts and dead-metal parts or low voltage isolated circuits.</p>
<p>2. <u>Mechanical Assembly</u> - 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.</p>
<p>3. <u>Corrosion Protection</u> - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.</p>
<p>4. <u>Accessibility of Live Parts</u> - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed</p>
<p>5. <u>Grounding</u> - All exposed dead-metal parts and all dead-metal parts within the enclosure that are exposed are connected to the the equipment grounding terminal.</p>
<p>6. <u>Polarized Connection</u> - This product is provided with a polarized power supply connection.</p>
<p>7. <u>Internal Wiring</u> - 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. All wiring is minimum 24 AWG, with a minimum rating of 300V, 80°C.</p>
<p>8. <u>Schematics</u> - Refer to Illustration No(s). 1,2 for schematics requiring verification during Field Representative Inspection Audits.</p>
<p>9. <u>Layout</u> - Refer to Illustration No(s). 3 to 6 for layout requiring verification during Field Representative Inspection Audits.</p>
<p>10. <u>Markings</u> - The product is marked on labeling system as follows: model number: refer to sec. 2.0 electrical ratings: refer to sec. 2.0 brand name: refer to sec. 2.0</p>
<p>11. <u>Cautionary Markings</u> - none required</p>
<p>12. <u>Installation, Operating and Safety Instructions</u> - Instructions for installation and use of this product are provided by the applicant. Refer to Illustration No(s). 13 to 15 for details.</p>
<p>13. <u>Transformer</u> - Supplier records must be provided that indicate the received shipment of transformers (section 4.0, item 18) was constructed as indicated in illustration 7 to 12. These records must be available at the factory for inspection on every received shipment.</p>

7.0 Illustrations

Illustration 13 - The manual for GTM46360-****

User manual for Model No.:
GTM46360-**** ;

ELECTRICAL SPECIFICATIONS:

Input: 100-240Vac, 50-60Hz , 0.75A

Output: 5.0Vdc; Max. 30W, details refer to making label.

Operating Temperature: -10°C TO 40° C

Storage Temperature: -40°C TO 80° C

Humidity: 0% TO 95% relative humidity

Weight: approx. 0.1kg

Enclosure Size: 74.8*41*35.3mm +/-1.0 mm

Input connector: Interchangeable Blades 2 PIN, Class II

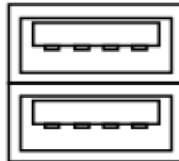
Output: USB A*1 or USB A*2 or USB Type C*1 or USB Type C*2 or USB A*1 and USB Type C*1

1. Please read these safety instructions carefully.
2. This unit is for indoor use only.
3. Please refer to the marking label on the unit for input and output ratings. Do not overload the power supply.
4. The socket-out shall be installed near the equipment and shall be easily accessible.
5. A readily accessible disconnect device shall be incorporated in the fixed wiring.
6. Disconnect the appliance coupler to separate the unit from mains supply.
7. The apparatus shall not be exposed to dripping or splashing.
8. Output (optional):

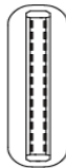
(1) USB1A means USB A*1



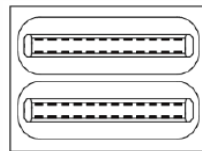
(2) USB2A means USB A*2



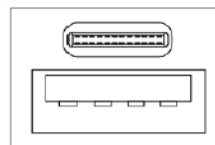
(3) USB1C means USB Type C*1



(4) USB2C means USB Type C*2



(5) USB1A1C means USB A*1 and USB Type C*1



7.0 Illustrations

Illustration 14 - The manual for GTM96183-*PD*-USB1C*

User manual for Model No.:
GTM96183-*PD*-USB1C*

ELECTRICAL SPECIFICATIONS:

Input: 100-240V~, 50-60Hz , 1.2A
Output: Standard option: 5V, 5.8V, 9V, 12V, 15V, 15.1V, 20V
PPS option (18W): 5V, 9V, 12V, 15V, 15.1V, 20V, PPS (5-21V)
PPS option (36W): 5V, 9V, 15V, 20V, PPS (5-11V), PPS (5-16V), PPS (5-21V);
Max. 36W, details refer to making label.

Operating Temperature: -10°C TO 40° C

Storage Temperature: -40°C TO 80° C

Humidity: 0% TO 95% relative humidity

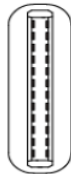
Weight: approx. 0.10kg

Enclosure Size: 74.4*41*35.3mm +/-1.0 mm

Input connector: Interchangeable Blades 2 PIN, Class II

Output connector: USB Type C

1. Please read these safety instructions carefully.
2. This unit is for indoor use only.
3. Please refer to the marking label on the unit for input and output ratings. Do not overload the power supply.
4. The socket-out shall be installed near the equipment and shall be easily accessible.
5. A readily accessible disconnect device shall be incorporated in the fixed wiring.
6. Disconnect the appliance coupler to separate the unit from mains supply.
7. The apparatus shall not be exposed to dripping or splashing.



8. Output connector: USB Type C



9. Class II equipment



10. Indoor use:

7.0 Illustrations

Illustration 15 - The manual for GTM96181-*PD***

User manual for Model No.:
GTM96181-*PD***;

ELECTRICAL SPECIFICATIONS:

Input: 100-240Vac, 50-60Hz ; 1.2A

Output: Standard option: 5V, 5.8V, 9V, 12V, 15V, 15.1V, 20V

PPS option (18W): 5V, 9V, 12V, 15V, 15.1V, 20V, PPS (5-21V)

PPS option (36W): 5V, 9V, 15V, 20V, PPS (5-11V), PPS (5-16V), PPS (5-21V)

Max. 36W, details refer to making label.

Operating Temperature: -10°C TO 40° C

Storage Temperature: -40°C TO 80° C

Humidity: 0% TO 95% relative humidity

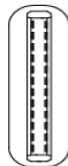
Weight: approx. 0.195kg

Enclosure Size: 87*46.5*32mm +/-1.0 mm or 74*43.5*36.8mm +/-1.0 mm

Input connector: IEC 60320 / C6 or C8 or C14 or C18 or Interchangeable Blades 2PIN Class II

Output cord with USB Type C connector: No.24 AWG min., 80 degrees C, min.30 Vac.

1. Please read these safety instructions carefully.
2. This unit is for indoor use only.
3. Please refer to the marking label on the unit for input and output ratings. Do not overload the power supply.
4. The socket-out shall be installed near the equipment and shall be easily accessible.
5. A readily accessible disconnect device shall be incorporated in the fixed wiring.
6. Disconnect the appliance coupler to separate the unit from mains supply.
7. The apparatus shall not be exposed to dripping or splashing.



8. Output: USB Type C connector



9. Class I equipment:





Class II equipment

10. Indoor use:



8.0 Test Summary			
Evaluation Period	2022-09-09 to 2022-12-25		Project No. 220900736SHA
Sample Rec. Date	9-Sep-2022	Condition	Prototype
			Sample ID: 0220909-20-001 to 010
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 62368-1:2019 Ed.3+R:22Oct2021 CSA C22.2#62368-1:2019 Ed.3+U1 Clause		
Classification of electrical energy sources	5.2		
Accessibility to electrical energy sources and safeguards (Accessibility test)	5.3.2		
Heating test and abnormal & fault condition test	5.4.1.4, 6.3, 6.4, 9.0, B.2.6, B.3, B.4, Annex G.5.3, G.5.4		
Determination of working voltage	5.4.1.8		
Measurement of Clearance and Creepage Distances	5.4.2, 5.4.3, Annex X		
Humidity test	5.4.8		
Electric strength test	5.4.9		
Safeguards against capacitance discharge test	5.5.2.2		
Resistance of the protective bonding system (Ground continuity test)	5.6.6.2		
Measurement of touch current	5.7.2.1		
Earthed accessible conductive part test	5.7.4, 5.7.5		
Electrical Power Source (PS) measurements for classification	6.2.2		
Determination of Potential Ignition Sources (Arcing PIS)	6.2.3.1		
Determination of Potential Ignition Sources (Resistive PIS)	6.2.3.2		
Input test	B.2.5		
Simulated abnormal operating and single fault Conditions	B.3, B.4		
Durability, legibility and permanence of markings	Annex F.3.10		
Limited power sources	Annex Q.1		
Steady force test, 10N, 250N	T.2, T.5		
Enclosure impact test	T.6		
Drop test	T.7		
Stress relief test	T.8		

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:	Ade Yang	Reviewed by:	Jacky Shu
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	GlobTek, Inc.
Address	186 Veterans Drive NORTHVALE NJ 07647
Country	USA
Product	ICT/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

LISTING MARK

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

The mark must include the following four items:

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

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

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

Can be used together when both standards are used.

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

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

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

MANUFACTURING AND PRODUCTION TESTS

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

FOLLOW-UP SERVICE

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

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

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

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

10.1 Evaluation of Unlisted Components

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

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

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

Managing CEC Location:
Intertek Testing Services Shanghai Limited
ETL Component Evaluation Center
Building No. 86, 1198 Qinzhou Road (North)
Shanghai 200233, China
Attn: Ms. Emiliana Zhou

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

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 Line/Neutral and earthing parts	2500Vdc	1 s
Between Line/Neutral and plastic enclosure	4000Vdc	1 s
Product -One sample from each shipment of Section 4.0 item 18:	Test Voltage	Test Time
Between primary pin and secondary pin	4000Vdc	1min

11.2 Grounding Continuity Test

Method

Each product listed below shall be subjected to a test to determine that there is continuity between accessible dead-metal parts of the product and the grounding pin or blade of the attachment plug.

If all accessible dead metal is connected, only a single test need be performed. A visual or audible device (ohmmeter, buzzer, etc.) may be used to indicate grounding continuity.

Products Requiring Grounding Continuity Test:

For models GTM96181-*PD*-T3* and GTM96181-*PD*-T3A* covered by this Report.

