

UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Listing
CCN:	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
Product:	ITE Power Supply
Model:	GT-85050-WW05-USB-W2 & GT-86050-WW05-USB-W2 (WW is the standard output wattage, with a maximum value of "05")
Rating:	For model GT-86050-WW05-USB-W2: I/P : 100-240 Vac, 50/60 Hz, 0.2 A O/P: 5 Vdc, 1.0 A max. For model GT-85050-WW05-USB-W2: I/P : 100-240 Vac or 100-120 Vac or 200-240 Vac, 50/60 Hz, 0.2 A O/P: 5 Vdc, 1.0 A max.
Applicant Name and Address:	GLOBTEK (HONG KONG) LTD UNIT 1402, BENSON TOWER 74 HUNG TO RD KWUN TONG KOWLOON HONG KONG

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ("UL") in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Prepared by: Angela Au

Reviewed by: Brian Wong

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

Electrical components are mounted on PWB, housed in plastic enclosure by ultrasonic welding.

Model Differences

- Model GT-86050-WW05-USB-W2 is identical to GT-85050-WW05-USB-W2 in Mechanical Construction, except for the altitude of operation, input rating voltage, transformer, PCB layout and model designation.

Altitude of operation for model GT-86050-WW05-USB-W2; 3000m; Altitude of operation for other models: 2000m.

- For GT-85050-WW05-USB-W2 operating temperature have T_{ma} 40°C or T_{ma}: 50 degree C.

Technical Considerations

- Equipment mobility : direct plug-in
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10% (manufacturer declared)
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class II (double insulated)
- Considered current rating of protective device as part of the building installation (A) : 20A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : Up to 2000m (for other models except for model GT-86050-WW05-USB-W2); up to 3000m was considered for model GT-86050-WW05-USB-W2
- Altitude of test laboratory (m) : Up to 2000m
- Mass of equipment (kg) : 0.026 kg max.

- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: CY1 Secondary pin
- The product is intended for use on the following power systems: TN
- The means of connection to the mains supply is: Pluggable A
- The equipment disconnect device is considered to be: Plug
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): USB output terminal
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: For GT-85050-WW05-USB-W2 Tma: 40 degree C or Tma:50 degree C.. For GT-86050-WW05-USB-WF2 Tma:50 degree C.
- Model GT-86050-WW05-USB-WF2 has evaluated to be operated under altitude up to 3,000m, so the clearance is multiplied by the altitude correction factors of 1,14, specified in table A.2 of IEC 60664-1: 1992 + A1: 2000 + A2: 2002.

Additional Information

- Upgrade the standard to UL 60950-1, 2nd Edition, 2014-10-14 and CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10.
- Consider 3000m altitude of operation for model GT-86050-WW05-USB-W2

Revision: 4787988900

USL/CNL - Copy the E135856-A122, Vol. X2 to E341351-A92, Vol. X9.

Revision: SR4106104.1015124

Model name changed to GT-85050-WW05-USB-W2 & GT-86050-WW05-USB-W2 in E341351-A92, Vol. X9.

Additional Standards

The product fulfills the requirements of: --

Markings and instructions

Clause Title	Marking or Instruction Details
LPS	Optional provides with marked "LPS" or "Limited Power Source".
1.7.1 Power rating - Ratings	Ratings (voltage, frequency/dc, current)
1.7.1 Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
1.7.1 Power rating - Model	Model Number

1.7.1 Power rating - Class II symbol	Symbol for Class II construction
1.7.6 Fuses - Non-operator access/soldered-in fuses	Unambiguous reference to service documentation for instructions for replacement of fuses replaceable only by service personnel

Special Instructions to UL Representative

- Inspect the transformer (T1) listed in BD1.1 per AA1.1- (C).
- When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer.
- Verify the specification sheet indicates 100% routine test specified in BD1.1 be conducted at the component manufacturer.

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
Transformer (T1)	N/A	N/A	Primary to Secondary	300 0 Vac	4242	1

Earthing Continuity Test Exemptions - This test is not required for the following models:

All models

Electric Strength Test Exemptions - This test is not required for the following models:

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Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

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Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
N/A	--	--	--	--	--

1.5.1	TABLE: list of critical components					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Enclosure	--	--	Dimension see Enclosure 4-01 for detail	--	--	3-01
01a. Enclosure (Alternate)	--	--	Dimension see Enclosure 4-02 for detail	--	--	3-03
01-01. Enclosure material	Sabic Innovative Plastics Japan L L C	SE1X	V-1 minimum, 2.0 mm thick minimum, 105 degree C.	QMFZ2	UL	
01-01a. Enclosure material (Alternate)	Asahi Kasei Chemicals Corp Xyron Polymer	540V	V-1 minimum, 2.0 mm thick minimum, 105 degree C.	QMFZ2	UL	
01-01b. Enclosure material (Alternate)	Asahi Kasei Chemicals Corp Xyron Polymer	540Z	V-1 minimum, 2.0 mm thick minimum, 105 degree C.	QMFZ2	UL	
01-01c. Enclosure material (Alternate)	Sabic Innovative Plastics Japan L L C	925U	V-0 minimum, 2.0 mm thick minimum, 115 degree C.	QMFZ2	UL	
01-01d. Enclosure material (Alternate)	Sabic Innovative Plastics Japan L L C	CH6410	V-0 minimum, 2.0 mm thick minimum, 100 degree C..	QMFZ2	UL	
02. Plug Holder	Sabic Innovative Plastics Japan L L C	SE1X	V-1 minimum, 2.0 mm thick minimum, 105 degree C.	QMFZ2	UL	
02a. Plug Holder (Alternate)	Asahi Kasei Chemicals Corp Xyron Polymer	540V	V-1 minimum, 2.0 mm thick minimum, 105 degree C.	QMFZ2	UL	
02b. Plug Holder (Alternate)	Asahi Kasei Chemicals Corp Xyron Polymer	540Z	V-1 minimum, 2.0 mm thick minimum, 105 degree C.	QMFZ2	UL	
02c. Plug Holder (Alternate)	Sabic Innovative Plastics Japan L L C	925U	V-0 minimum, 2.0 mm thick minimum, 115 degree C.	QMFZ2	UL	
02d. Plug Holder (Alternate)	Sabic Innovative Plastics Japan L L C	CH6410	V-0 minimum, 2.0 mm thick minimum, 100 degree C.	QMFZ2	UL	
03. Fusing Resistor (RF1) for other models except for GT-86050-WW05-USB-W2	Jiangsu Xinyang Electronic Component Co Ltd	RF10-2W	350V, 10ohm, 2W	FPEW2	UL	
03a. Fusing Resistor	ShenZhen Great	RXF-2W	350V, 10ohm, 2W	FPEW2	UL	

(RF1) for other models except for GT-86050-WW05-USB-W2 (Alternate)	Electronics Co.,Ltd					
03b. Fusing Resistor (RF1) for other models except for GT-86050-WW05-USB-W2 (Alternate)	Shenzhen Kayocota Electronics Co Ltd	FRKNP-2W	350V, 10ohm, 2W	FPEW2	UL	
03c. Fusing Resistor (RF1) for other models except for GT-86050-WW05-USB-W2 (Alternate)	Shi Meng Electronic (Shenzhen) Co Ltd	FKN Series.	350V, 10ohm, 1W	FPEW2	UL	
03d. Fusing Resistor (RF1) for other models except for GT-86050-WW05-USB-W2(Alternate)	Anhui Changsheng Electronics Co Ltd	FRT-2W	250V, 10ohm, 2W	FPEW2	UL	
03e. Fusing Resistor (RF1) for other models except for GT-86050-WW05-USB-W2 (Alternate)	Anhui Changsheng Electronics Co Ltd	RXF21-2W	250V, 10ohm, 2W	FPEW2	UL	
03f. Fusing Resistor (RF1) for other models except for GT-86050-WW05-USB-W2(Alternate)	Tzai Yuan Enterprise Co Ltd	KNF	10ohm,2W	--	--	
03-1. Fusing Resistor (RF1) for model GT-86050-WW05-USB-W2only	ShenZhen Great Electronics Co., Ltd	RXF-2W	10ohm or 6.8ohm or 3.3ohm,2W	FPEW2	UL E301541	
03-1a. Fusing Resistor (RF1) for model GT-86050-WW05-USB-W2 only (Alternate)	SHIMENG ELECTRONICS (HUIZHOU) CO LTD	FKN Series.	10ohm or 6.8ohm or 3.3ohm,2W	FPEW2	UL E339430	

03-1b. Fusing Resistor (RF1) for model GT-86050-WW05-USB-W2 only (Alternate)	Anhui Changsheng Electronics Co Ltd	FRT-2W	10ohm or 6.8ohm or 3.3ohm,2W	FPEW2	UL E306095	
03-1c. Fusing Resistor (RF1) for model GT-86050-WW05-USB-W2 only (Alternate)	Tzai Yuan Enterprise Co Ltd	KNF2W	10ohm or 6.8ohm or 3.3ohm,2W	FPEW2	UL E355632	
04. Inductor (L1)	--	--	130 degree C minimum	--	--	4-04
05. Bridge diodes (D1, D2, D3, D4) for other models except for GT-86050-WW05-USB-W2	--	--	1A minimum, 500V minimum	--	--	
05-1. Bridge diodes (BD1) for model GT-86050-WW05-USB-W2 only	--	--	1A minimum, 500V minimum	--	--	
06. Electrolytic Capacitor (C1, C2) for other models except for GT-86050-WW05-USB-W2	--	--	2.2-10 uF, minimum 400 Vac. Minimum 105 degree C.	--	--	
06-1. Electrolytic Capacitor (C1, C2) for model GT-86050-WW05-USB-W2 only	--	--	Min.400V, max. 4.7µF, 105 degree C. Provided pressure relief slot.	--	--	
07. Transistor (Q1) for other models except for GT-86050-WW05-USB-W2	--	--	1.0A Minimum, 600V Minimum.	--	--	
07-1. Power IC (U1) for model GT-86050-WW05-USB-W2 only	--	--	1.0A Minimum, 600V Minimum.	--	--	
08. Current sense resistor (R14, R15) for other models except for DSA-5PF07-05 bUS 050yGT-86050-	--	--	Each 2.2 ohm minimum, 1/8W minimum	--	--	

WW05-USB-W2						
08-1. Current sense resistor (R10, R11) for model GT-86050-WW05-USB-W2 only	--	--	Each 2.2 ohm minimum, 1/8W minimum	--	--	
09. Transformer (T1) (For model GT-86050-WW05-USB-W2)	--	--	Class B, Spec. see Enclosure 4-03 for detail	--	--	4-03
09. Transformer (T1) (For model GT-85050-WW05-USB-W2)	--	DSA-5PFH-05	Class B, Spec. see Enclosure 4-07 for detail	--	--	4-07
09-1. Insulation System			Class B	OBJY2	UL	
09-2. Core	--	--	Ferrite, see enclosure for details.	--	--	
09-3. Bobbin	Hitachi Chemical Co Ltd	CP-J-8800	Two-flange, phenolic, rated V-0, minimum 150 degree C, minimum 0.71 mm thick.	QMFZ2	UL	
09-3a. Bobbin (Alternate)	Sumitomo Bakelite Co Ltd	PM-9820	Two-flange, phenolic, rated V-0, minimum 150 degree C, minimum 0.71 mm thick.	QMFZ2	UL	
09-4. Coil	--	--	Copper magnet wire wound concentrically on tape / bobbin.	OBMW2	UL	
09-5. Triple Insulation Wire	Young Chang Silicone Co Ltd	STW-B	Minimum 130 degree C	OBJT2	UL	
09-6. Insulation Tape	3M Company Electrical Markets Div (EMD)	1350F-1, 1350F-2	Minimum 130 degree C.	OANZ2	UL	
09-6a. Insulation Tape (Alternate)	Symbio Inc	35660, 35661	Minimum 130 degree C.	OANZ2	UL	
09-7. Varnish	Hitachi Chemical Co., Ltd.	WP-2952F-2G	Minimum 130 degree C.	OBOR2	UL	
09-7a. Varnish (Alternate)	PD George Co/Ripley Resin	468-2(+)	Minimum 130 degree C.	OBOR2	UL	
09-8. Tubing (Optional)	Great Holding Industrial Co., Ltd.	TFS, TFT	Minimum 130 degree C.	YDPU2	UL	
09-8a. Tubing (Optional)	Zeus Industrial	TFE-TW-300,	Minimum 130 degree C.	YDPU2	UL	

(Alternate)	Products Inc	TFE-SW-600				
09a. Transformer (T1) (Alternate)	--	--	Class B, Spec. see Enclosure 4-03 for detail	--	--	4-03
09a. Transformer (T1) (For model GT-85050- WW05-USB-W2) (Alternate)	--	DSA-5PFH-05	Class B, Spec. see Enclosure 4-07 for detail	--	--	4-03
09a-1. Insulation System			Class B	OBJY2	UL	
09a-2. Core	--	--	Ferrite, see enclosure for detail.	--	--	
09a-3. Bobbin	Hitachi Chemical Co Ltd	CP-J-8800	Two-flange, phenolic, rated V-0, minimum 150 degree C, minimum 0.71 mm thick.	QMFZ2	UL	
09a-4. Coil	--	--	Copper magnet wire wound concentrically on tape / bobbin.	OBMW2	UL	
09a-5. Triple Insulation Wire	Furukawa Electric Co., Ltd.	TEX-E	Minimum 130 degree C	OBJT2	UL	
09a-5a. Triple Insulation Wire (Alternate)	Totoku Electric Co Ltd	TIW-E	Minimum 130 degree C	OBJT2	UL	
09a-6. Insulation Tape	3M Company Electrical Markets Div (EMD)	1350F-1, 1350F-2	Minimum 130 degree C.	OANZ2	UL	
09a-6a. Insulation Tape (Alternate)	Symbio Inc	MY130	Minimum 130 degree C.	OANZ2	UL	
09a-7. Varnish	Hitachi Chemical Co., Ltd.	WP-2952F-2G, WA-238A, WF-285	Minimum 130 degree C.	OBOR2	UL	
09a-7a. Varnish (Alternate)	Meiden Chemical Co., Ltd.	#880, #754 XL	Minimum 130 degree C.	OBOR2	UL	
09a-8. Tubing (Optional)	Zeus Industrial Products Inc	TFE-TW-300	Minimum 130 degree C.	YDPU2	UL	
09b. Transformer (T1) (For model GT-86050- WW05-USB-W2)			Class B, Spec. see Enclosure 4-08 for detail	--	--	4-08
09b-1. Insulation System			Class B	OBJY2	UL	
09b-2. Core	--	--	Ferrite, see enclosure for	--	--	

			details.			
09b-3. Bobbin	Hitachi Chemical Co Ltd	CP-J-8800	Two-flange, phenolic, rated V-0, minimum 150 degree C, minimum 0.71 mm thick.	QMFZ2	UL	
09b-3a. Bobbin (Alternate)	Sumitomo Bakelite Co Ltd	PM-9820	Two-flange, phenolic, rated V-0, minimum 150 degree C, minimum 0.71 mm thick.	QMFZ2	UL	
09b-4. Coil	--	--	Copper magnet wire wound concentrically on tape / bobbin.	OBMW2	UL	
09-5. Triple Insulation Wire	Young Chang Silicone Co Ltd	STW-B	Minimum 130 degree C	OBJT2	UL	
09b-6. Insulation Tape	3M Company Electrical Markets Div (EMD)	1350F-1, 1350F-2	Minimum 130 degree C.	OANZ2	UL	
09b-6a. Insulation Tape (Alternate)	Symbio Inc	35660, 35661	Minimum 130 degree C.	OANZ2	UL	
09b-7. Varnish	Hitachi Chemical Co., Ltd.	WP-2952F-2G	Minimum 130 degree C.	OBOR2	UL	
09b-7a. Varnish (Alternate)	PD George Co/Ripley Resin	468-2(+)	Minimum 130 degree C.	OBOR2	UL	
09b-8. Tubing (Optional)	Great Holding Industrial Co., Ltd.	TFS, TFT	Minimum 130 degree C.	YDPU2	UL	
09b-8a. Tubing (Optional) (Alternate)	Zeus Industrial Products Inc	TFE-TW-300, TFE-SW-600	Minimum 130 degree C.	YDPU2	UL	
09c. Transformer (T1) (For model GT-86050-WW05-USB-W2) (Alternate)		-	Class B, Spec. see Enclosure 4-08 for detail	--	--	4-08
09c-1. Insulation System (Alternate)			Class B	OBJY2	UL	
09c-2. Core	--	--	Ferrite, see enclosure for detail.	--	--	
09c-3. Bobbin	Hitachi Chemical Co Ltd	CP-J-8800	Two-flange, phenolic, rated V-0, minimum 150 degree C, minimum 0.71 mm thick.	QMFZ2	UL	
09c-4. Coil	--	--	Copper magnet wire wound concentrically on tape / bobbin.	OBMW2	UL	
09c-5. Triple Insulation	Furukawa Electric	TEX-E	Minimum 130 degree C	OBJT2	UL	

Wire	Co., Ltd.					
09c-5a. Triple Insulation Wire (Alternate)	Totoku Electric Co Ltd	TIW-E	Minimum 130 degree C	OBJT2	UL	
09c-6. Insulation Tape	3M Company Electrical Markets Div (EMD)	1350F-1, 1350F-2	Minimum 130 degree C.	OANZ2	UL	
09c-6a. Insulation Tape (Alternate)	Symbio Inc	MY130	Minimum 130 degree C.	OANZ2	UL	
09c-7. Varnish	Hitachi Chemical Co., Ltd.	WP-2952F-2G, WA-238A, WF-285	Minimum 130 degree C.	OBOR2	UL	
09c-7a. Varnish (Alternate)	Meiden Chemical Co., Ltd.	#880, #754 XL	Minimum 130 degree C.	OBOR2	UL	
09c-8. Tubing (Optional)	Zeus Industrial Products Inc	TFE-TW-300	Minimum 130 degree C.	YDPU2	UL	
10. PWB	--	--	V-1 or better, minimum 130 degree C.	ZPMV2	UL	
11. Internal Wiring	--	--	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; minimum 300 V, 80 degree C minimum.	AVLV2	UL	
12. Connectors and Receptacles (secondary/ SELV circuits)	--	--	Minimum 30V	ECBT2, RTRT2	UL	
12a. Connectors and Receptacles (secondary ELV/SELV circuits) (Alternate)	--	--	Copper alloy pins housed in bodies of plastic rated V-2 minimum	QMFZ2	UL	
13. Label	--	--	50 degree C minimum if maximum surface temperature not specified.	PGDQ2 or PGJ12	UL	
13a. Permanency of Marking (Alternate)	--	--	Permanently ink-stamped, silk-screened, molded in, or on self-adhesive labels.	--	--	
14. Blade	--	--	Non-polarized, Copper or copper alloy, comply with NEMA 1-15P configuration.	--	--	

			Each blade to the enclosure perimeter shall be at least 5.1 mm. Internal blade parts connect to PCB by pressure contact (see Enclosure - Photograph 3-05) or mechanically secured to PCB by solder (see Enclosure - Photographs 3-09 and 3-10).			
15. Insulating films (between T1 core and secondary components C6, C8)	Sumitomo Bakelite Co Ltd	AV-Lite DP 901	V-0 minimum, 0.4 mm thick minimum, 130 degree C. dimension see diagram 4-05 for details.	QMFZ2	UL	4-05
15a. Insulating films (between T1 and secondary components C6, C8) (Alternate)	Sabic Innovative Plastics Us L L C	FR700	V-0 minimum, 0.4 mm thick minimum, 125 degree C. dimension see diagram 4-05 for details.	QMFZ2	UL	
15b. Insulating films (between T1 and secondary components C6, C8) (Alternate)	Mianyang Longhua Film Co Ltd.	PP-BK17, PP-BK18, PP-WT17, PP-WT18	V-0 minimum, 0.4 mm thick minimum, 100 degree C. dimension see diagram 4-05 for details.	QMFZ2	UL	
15c. Insulating films (between T1 and secondary components C6, C8) (Alternate)	Chengdu Kanglongxin Plastics Co Ltd	KLX PC-811A, KLX PC813A	V-2 minimum 2.0 mm thick minimum, 80 degree C. dimension see diagram 4-05 for details.	QMFZ2	UL	
15d. Insulating films (between T1 and secondary components C6, C8) (Alternate)	Mianyang Longhua Film Co Ltd	PC-770, PC-770 A, PC-870 A	V-0 minimum 0.4 mm thick minimum, 80 degree C. dimension see diagram 4-05 for details.	QMFZ2	UL	
16. Thermal Pad (Between enclosure and T1) (Optional)	--	--	V-1 minimum	QMFZ2	UL	
17. Interconnecting	Various	Various	Min. 30V, 60 degree C, max.	AVLV2, DVPJ	UL	

Cable (Optional)			3.05m in length, marked VW-1 or FT-1,			
18. Y capacitor (CY1) (for model GT-86050- WW05-USB-W2 only)	Tdk-Epc Corporation	CD	Rated maximum 1000 pF, minimum 250 V, 125 degree C. Y1 capacitor.	FOWX2	UL	
18a. Y capacitor (CY1) (for model GT-86050- WW05-USB-W2 only) (Alternate)	Success Electronics Co Ltd	SE,SB	Rated maximum 1000 pF, minimum 250 V, 125 degree C. Y1 capacitor.	FOWX2	UL	
18b. Y capacitor (CY1) (for model GT-86050- WW05-USB-W2 only) (Alternate)	Jya-Nay Co Ltd	JN	Rated maximum 1000 pF, minimum 250 V, 125 degree C. Y1 capacitor.	FOWX2	UL	
18c. Y capacitor (CY1) (for model GT-86050- WW05-USB-W2 only) (Alternate)	Samwha Capacitor Co Ltd	SD	Rated maximum 1000 pF, minimum 250 V, 125 degree C. Y1 capacitor.	FOWX2	UL	
18d. Y capacitor (CY1) (for model GT-86050- WW05-USB-W2 only) (Alternate)	Nan Jing Yuyue Electronics Co Ltd	CT7	Rated maximum 1000 pF, minimum 250 V, 125 degree C. Y1 capacitor.	FOWX2	UL	
18e. Y capacitor (CY1) (for model GT-86050- WW05-USB-W2 only) (Alternate)	Yinan Don's Electronic Component Co Ltd	CT81	Rated maximum 1000 pF, minimum 250 V, 125 degree C. Y1 capacitor.	FOWX2	UL	
18f. Y capacitor (CY1) (for model GT-86050- WW05-USB-W2 only) (Alternate)	Jyh Hsu (Jec) Electronics Ltd	JD	Rated maximum 1000 pF, minimum 250 V, 125 degree C. Y1 capacitor.	FOWX2	UL	

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