Prüfbericht-Nr.: *Test report no.:*	**50098920 003**	**Auftrags-Nr.:** *Order no.:*	**168308430**	Seite 1 von 2 *Page 1 of 2*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2021-03-05	
Auftraggeber: *Client:*	Shenzhen Fujia Appliance Co., Ltd. 5F of Building F, Hengchangrong(xinghui) Sci-Tech. Park, Huaning Road, Longhua District, Shenzhen, Guangdong, P.R. China			
Prüfgegenstand: *Test item:*	SWITCHING ADAPTER			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	FJ-SW2017xxxyyyy (for definition of variables xxx, yyyy see table A on page 2 for details) (Trade mark: FJ)			
Auftrags-Inhalt: *Order content:*	TÜV Rheinland GS mark approval			
Prüfgrundlage: *Test specification:*	EN 62368-1:2014+A11:2017			
Wareneingangsdatum: *Date of sample receipt:*	2021-03-05			
Prüfmuster-Nr.: *Test sample no:*	A003010621			
Prüfzeitraum: *Testing period:*	2021-03-05			
Ort der Prüfung: *Place of testing:*	1601 R&D Room, 1602-1604, 17-18F, Building 7 Site C, Vanke Cloud City Phase I, XingKe First Street, Xili Street, Xili Community, Nanshan District, Shenzhen 518052, P.R. China			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: *Test result*:*	Pass			



geprüft von:
tested by: Jericho Cheng

Datum:
Date: 2021-03-12

Stellung / *Position:* Project Engineer

genehmigt von:
authorized by: Jammy Zhang

Ausstellungsdatum:
Issue date: 2021-03-12

Stellung / *Position:* Technical Certifier

Sonstiges / *Other:* - see next page

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.

TUV Rheinland (Shenzhen) Co., Ltd. 1601 R&D Room, 1602-1604, 17-18F, Building 7 Site C, Vanke Cloud City Phase I, XingKe First Street, Xili Street, Xili Community, Nanshan District, Shenzhen 518052, P.R. China
Mail: service@de.tuv.com · Web: www.tuv.com

Sonstiges/ *Other Aspects:*

1. The test report is issued for TÜV Rheinland GS mark approval modification. This report is based on CB test reports 50098919 001 to 50098919 002 and GS reports 50098920 001 to 50098920 002 to issue new Cert. with the following changes:
   a) Add new construction for filter (LF1), only add the alternative base/TIWP, and add one source of Bobbin for LF2.
   b) Delete the standard: EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013.
   The submitted sample was checked and found to be without changes and the product conform to the previous tested product. No additional test required.
2. Tested according to European harmonized standards. All relevant EK-decisions have been considered.
3. Foreseeable use was considered. Currently neither a safeguard clause procedure has been invoked nor is an increase in accidents known for this/these product(s).
4. PAK, The risk analysis, categorization and evaluation indicate that no further testing is necessary. Product complies to AfPS GS 2019:01 Par. 3.1.
5. This report consists 2 pages of cover page, 12 pages of photo documentation (Attachment 1), 1 page of EMF Assessment Report (Attachment 2).

Table A: Definition of variables:

Variable:	Range of variable:	Content:
xxx	050-090, 095-195, 200-330, 360-540	'xxx' are 3 digits indicating 10 times the output voltage value in V. For example, 050 represents the output voltage is 5.0Vdc, 540 represents the output voltage is 54.0Vdc.
yyyy	0100 to 6000	'yyyy' are 4 digits indicating 1000 times the output current value in A. For example, 0100 represents the output current is 0.1A, 6000 represents the output current is 6.0 A.

Table B: Model list:

Type designation	**Output Voltage range (Vdc)**	**Output Current Range (A)**	**Max. Output power (W)**	**Transformer**
FJ-SW2017xxxyyyy (xxx= 050-090, yyyy= 0100-6000)	5.0-9.0	0.1-6.0	54	2017-T1 (Sec winding: Φ0.45mm*6P*3Ts)
FJ-SW2017xxxyyyy (xxx= 095-195, yyyy= 0100-6000)	9.5-19.5	0.1-6.0	65	2017-T2 (Sec winding: Φ0.45mm*4P*6Ts)
FJ-SW2017xxxyyyy (xxx = 200-330, yyyy= 0100 - 3250)	20.0-33.0	0.1-3.25	65	2017-T3 (Sec winding: Φ0.50mm*2P*10Ts)
FJ-SW2017xxxyyyy (xxx = 360-540, yyyy= 0100 - 1860)	36.0-54.0	0.1-1.80	65	2017-T4 (Sec winding: Φ0.45mm*2P*18Ts)

Note:

The rated output voltage is rising in steps of 0.1V.

The rated output current is rising in steps of 0.01A.

Output voltage multiplied with output current are only tested up to the max. output power.

Attachment 2 to report No. 50098920 003

EMF Assessment

Applicant: Shenzhen Fujia Appliance Co., Ltd.

Product name: SWITCHING ADAPTER

Model name: FJ-SW2017xxxyyyy

The equipment is a SWITCHING ADAPTER with a low power, it does incorporate only non-intentional radiators, but does not contain radio transmitters; the typical usage, installation and physical characteristics make the equipment inherently compliant with all applicable EMF exposure levels (EN 62479:2010 clause 4.1 Route A).

Name of SV: Jericho Cheng

Date: 2021-03-12

Constructional Data Form (CDF) for Electrical Appliances

License holder	:	**Shenzhen Fujia Appliance Co., LTD.** 5F of Building F, Hengchangrong(xinghui) Sci-Tech. Park, Huaning Road, Longhua District, Shenzhen, Guangdong, P.R. China
Factory	:	**Huizhou Fujia Appliance Tech. Co., Ltd.** Building B of Yaoyu Ind. Park, Shatian Town, Huiyang District, Huizhou, Guangdong, P.R. China
Type of Appliance	:	SWITCHING ADAPTER
Type Designation	:	FJ-SW2017xxxyyyy (for definition of variables xxx, yyyy see table A)
Rating	:	Input: 100-240V~, 50/60Hz, 1.5A Max. Output: See table B for details
Protection Class	:	Class I
Supply connection	:	☐ fixed power cord ☐ permanent connection ☒ appliance inlet ☐ direct plug in ☐ built-in

Additional information :

The specified maximum ambient temperature is 45°C

The output complied with LPS

Altitude: 5000m

Table A: Definition of variables:

Variable:	Range of variable:	Content:
xxx	050-090, 095-195, 200-330, 360-540	'xxx' are 3 digits indicating 10 times the output voltage value in V. For example, 050 represents the output voltage is 5.0Vdc, 540 represents the output voltage is 54.0Vdc.
yyyy	0100 to 6000	'yyyy' are 4 digits indicating 1000 times the output current value in A. For example, 0100 represents the output current is 0.1A, 6000 represents the output current is 6.0 A.

Table B: Model list:

Type designation	Output Voltage range (Vdc)	Output Current Range (A)	Max. Output power (W)	Transformer

TÜV Rheinland Group

2021-03-12			12-03-2021	Henry Luo	
Date	**Printed Name**	**Signature**	**Date**	**Printed Name**	**Stamp&Signature of licenseholder (name of authorized person)**

FJ-SW2017xxxyyyy (xxx= 050-090, yyyy= 0100-6000)	5.0-9.0	0.1-6.0	54	2017-T1 (Sec winding: Φ0.45mm*6P*3Ts)
FJ-SW2017xxxyyyy (xxx= 095-195, yyyy= 0100-6000)	9.5-19.5	0.1-6.0	65	2017-T2 (Sec winding: Φ0.45mm*4P*6Ts)
FJ-SW2017xxxyyyy (xxx = 200-330, yyyy= 0100 - 3250)	20.0-33.0	0.1-3.25	65	2017-T3 (Sec winding: Φ0.50mm*2P*10Ts)
FJ-SW2017xxxyyyy (xxx = 360-540, yyyy= 0100 - 1860)	36.0-54.0	0.1-1.80	65	2017-T4 (Sec winding: Φ0.45mm*2P*18Ts)
Note: The rated output voltage is rising in steps of 0.1V. The rated output current is rising in steps of 0.01A. Output voltage multiplied with output current are only tested up to the max. output power.				

Critical Components

Material: e.g. external enclosure, PCB, closed-end connector, sleeves, cord anchorage etc

Components with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity [1)]
Enclosure	Sabic Innovative Plastics US L L C	940(f1)	PC, V-0, 120°C, min. thickness 1.5mm	UL 94	UL
(Alternative)	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	PC2330, PC2370(a1)(f1)	PC, V-0, 115°C, min. thickness 1.5mm	UL 94	UL
AC Inlet (CN1)	Zhejiang LECI Electronics Co., Ltd	DB-14	10A, 250Vac, Standard sheet C14, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL
(Alternative)	Zhejiang LECI Electronics Co., Ltd	DB-6	2.5A, 250Vac, Standard sheet C6, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL

(Alternative)	DONGGUAN HUACONN ELECTRONICS CO LTD	HC-99	10A, 250Vac, Standard sheet C14, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL
(Alternative)	DONGGUAN HUACONN ELECTRONICS CO LTD	HC-66	2.5A, 250Vac, Standard sheet C6, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL
(Alternative)	Zhe Jiang Bei Er Jia Electronic Co.	ST-A01-003J	10A, 250Vac, Standard sheet C14, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL
(Alternative)	Zhe Jiang Bei Er Jia Electronic Co.	ST-A04-002	2.5A, 250Vac, Standard sheet C6, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL
(Alternative)	Rong Feng Industrial Co Ltd	SS-120	10A, 250Vac, Standard sheet C14, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL
(Alternative)	Rong Feng Industrial Co Ltd	RF-190	2.5A, 250Vac, Standard sheet C6, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL
(Alternative)	Sun Fair Electric Wire & Cable (HK) Co Ltd	S-03	10A, 250Vac, Standard sheet C14, 70°C	IEC/EN 60320-1 UL 60320-1	VDE UL
Protective bonding wire	SHENZHEN FUJIA APPLIANCE CO LTD	1672	VW-1, Min.18AWG, 105°C	UL758	UL
Fuse(F1)	XC Electronics (Shen Zhen) Corp. Ltd.	3T	T3.15AL, 250Vac	IEC/EN 60127-1 IEC/EN 60127-3 UL 248	VDE UL
(Alternative)	Shenzhen Lanson Electronics Co., Ltd.	3K Series	T3.15AL, 250Vac	IEC/EN 60127-1 IEC/EN 60127-3 UL 248	VDE UL
(Alternative)	HONG HU BLUELIGHT ELECTRONIC CO LTD	L3T	T3.15AL, 250Vac	IEC/EN 60127-1 IEC/EN 60127-3 UL 248	VDE UL
Line filter (LF1) (Optional)	Huizhou Fujia Appliance Tech. Co., Ltd.	TC1004-701U	Min.0.7mH, 130°C	IEC/EN 62368-1	Tested with appliance

- Triple insulated wire	Furukawa Electric Co., Ltd.	TEX-E	130°C	IEC/EN/UL 62368-1	VDE UL
(Alternative)	HUIZHOU HUAYING ELECTRONIC TECHNOLOGY CO LTD	MIW-B	130°C	IEC/EN/UL 62368-1	VDE UL
(Alternative)	SHENZHEN KAIZHONG HEDONG NEW MATERIALS CO LTD	TIW-B	130°C	IEC/EN/UL 62368-1	VDE UL
- Bobbin (Optional)	Sumitomo Bakelite Co. Ltd	PM-9820, PM-9630	Phenolic, V-0, 150°C, Min. thickness 0.9 mm	UL 94	UL
(Alternative)	Chang Chun Plastics	4130(100%Virgin) (a)(b)	PBT, V-0, 140 °C, Min. thickness 0.9 mm	UL94	UL
(Alternative)	Chang Chun Plastics	T-378J	PMC, V-0, 150 °C, Min. thickness 0.9 mm	UL94	UL
Line filter (LF2) (Optional)	Interchangeable	Interchangeable	Min.12mH,130°C	IEC/EN 62368-1	Tested with appliance
- Bobbin	Sumitomo Bakelite Co. Ltd	PM-9820, PM-9630	Phenolic, V-0, 150°C, Min. thickness 0.9 mm	UL 94	UL
(Alternative)	Chang Chun Plastics	4130(100%Virgin) (a)(b)	PBT, V-0, 140 °C, Min. thickness 0.9 mm	UL94	UL
(Alternative)	Chang Chun Plastics	T-378J	PMC, V-0, 150 °C, Min. thickness 0.9 mm	UL94	UL
- Insulation tape	3M Corp	1350F-1(b), 1350-1(c)	130°C	UL 510	UL
(Alternative)	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	CT*(c)(g), PZ*(b)	130°C	UL 510	UL

X-Capacitor (CX1) (optional)	Shantou High- New Technology Development Zone Songtian Enterprise Co	MPX	Max. 0.47µF, min. 250Vac, 110°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	XIAMEN WANMING ELECTRONICS CO LTD	MPX	Max. 0.47µF, min. 250Vac, 110°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	DONGGUAN TOPCAP TECHNOLOGY CO LTD	MPX	Max. 0.47µF, min. 250Vac, 110°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	DONGGUAN CITY DAFU ELECTRONICS CO LTD	MPX	Max. 0.47µF, min. 250Vac, 110°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative	Dongguan Easy-Gather Electronic Co Ltd	MKP-X2	Max. 0.47µF, min. 250Vac, 105°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Carli Electronics Co.,Ltd	MPX	Max. 0.47µF, min. 250Vac, 100°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	MPX/MKP	Max. 0.47µF, min. 250Vac, 110°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Tenta Electric Industrial Co Ltd	MEX	Max. 0.47µF, min. 250Vac, 110°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Dain Electronics Co Ltd	MPX	Max. 0.47µF, min. 250Vac, 110°C, X2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	SHENZHEN HAOTIAN ELECTRONIC CO LTD	MPX	Max. 0.47µF, min. 250Vac, 105°C, X2 type	IEC/EN/UL 60384-14	VDE UL

Bridge capacitor (CY1, CY2) (when CY1&CY2 in series use) (optional)	Shantou High-New Technology Development Zone Songtian Enterprise Co Ltd	CD (for Y1 type), CE (for Y2 type)	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	GUANGDONG SOUTH HONGMING ELECTRONIC SCIENCE & TECHNOLOGY CO LTD	F	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Dongguan Cigu Electronic	CD (Y1), CE (Y2)	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	DONGGUAN CITY DAFU ELECTRONICS CO LTD	CT7 Y1, CT7 Y2	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	XIAMEN WANMING ELECTRONICS CO LTD	CK (for Y1 type), CM (for Y2 type)	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Dongguan Easy-Gather Electronic Co Ltd	DCF	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Jya-Nay Co Ltd	JN	Max. 3300pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	TUV UL
(Alternative)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YO-series (Y1), YT(Y2)	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN 60384-14	VDE
(Alternative)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YOF (Y1), YT (Y2)	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	UL 60384-14	UL
(Alternative)	Murata Mfg Co Ltd	KX	Max. 3300pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL

(Alternative)	SHENZHEN HAOTIAN ELECTRONIC CO LTD	HT (Y1), HTC (Y2)	Max. 3300pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
Bridge capacitor (CY1) (when CY2 not use) (optional)	Shantou High-New Technology Development Zone Songtian Enterprise Co Ltd	CD	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	GUANGDONG SOUTH HONGMING ELECTRONIC SCIENCE & TECHNOLOGY CO LTD	F	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Dongguan Cigu Electronic	CD	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	DONGGUAN CITY DAFU ELECTRONICS CO LTD	CT7 Y1	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	XIAMEN WANMING ELECTRONICS CO LTD	CK	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Dongguan Easy-Gather Electronic Co Ltd	DCF	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Jya-Nay Co Ltd	JN	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	TUV UL
(Alternative)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YO-series	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE
(Alternative)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YOF	Max. 2200pF, min. 250Vac, 125°C, Y1 type	UL 60384-14	UL

(Alternative)	Murata Mfg Co Ltd	KX	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	SHENZHEN HAOTIAN ELECTRONIC CO LTD	HT	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
Bridge capacitor (CY3, CY4) (optional)	Shantou High-New Technology Development Zone Songtian Enterprise Co Ltd	CD (for Y1 type) CE (for Y2 type)	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	GUANGDONG SOUTH HONGMING ELECTRONIC SCIENCE & TECHNOLOGY CO LTD	F	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Dongguan Cigu Electronic	CD (Y1), CE (Y2)	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	DONGGUAN CITY DAFU ELECTRONICS CO LTD	CT7 Y1, CT7 Y2	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	XIAMEN WANMING ELECTRONICS CO LTD	CK (for Y1 type), CM (for Y2 type)	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Dongguan Easy-Gather Electronic Co Ltd	DCF	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	Jya-Nay Co Ltd	JN	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	TUV UL
(Alternative)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YO-series (Y1), YT(Y2)	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN 60384-14	VDE

(Alternative)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	YOF (Y1), YT (Y2)	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	UL 60384-14	UL
(Alternative)	Murata Mfg Co Ltd	KX	Max. 2200pF, min. 250Vac, 125°C, Y1 type	IEC/EN/UL 60384-14	VDE UL
(Alternative)	SHENZHEN HAOTIAN ELECTRONIC CO LTD	HT (Y1), HTC (Y2)	Max. 2200pF, min. 250Vac, 125°C, Y1 or Y2 type	IEC/EN/UL 60384-14	VDE UL
Varistor (RV1) (Optional)	Shantou High-New Technology Development Zone Songtian Enterprise Co Ltd	10D471K, 10D511K, 14D471K, 14D511K	Min. 300V ac, 105°C, (tested for 6KV/3KA combination pulse), coating V-0	IEC/EN 61051-1 UL 1449	VDE UL
(Alternative)	XIAMEN WANMING ELECTRONICS CO LTD	WMR10D471K-2, WMR10D471K-3, WMR10D511K-2, WMR10D511K-3, WMR14D471K-2, WMR14D471K-3, WMR14D511K-2, WMR14D511K-3	Min. 300V ac, Min.105°C, (tested by UL for 6KV/3KA combination pulse), coating V-0	IEC/EN 61051-1 UL 1449	VDE UL
(Alternative)	Thinking Electronic Industriall Co Ltd	TVR14471, TVR14511, TVR14561, TVR14621, TVR10471, TVR10511, TVR10561, TVR10621	Min. 300V ac, 105°C, (tested for 6KV/3KA combination pulse), coating V-0	IEC/EN 61051-1 UL 1449	VDE UL
(Alternative)	Lien Shun Technical Co Ltd	10D471K, 10D511K, 14D471K, 14D511K	Min. 300V ac, 105°C, (tested for 6KV/3KA combination pulse), coating V-0	IEC/EN 61051-1 UL 1449	VDE UL

(Alternative)	Success Electronics Co Ltd	SVR14D471K, SVR14D511K, SVR10D471K, SVR10D511K	Min. 300V ac, Min.105°C, (tested by UL for 6KV/3KA combination pulse), coating V-0	IEC/EN 61051-1 IEC/EN 61051-2 UL 1449	VDE UL
(Alternative)	Centra Science Corp	CNR-14D471K, CNR-10D471K, CNR-10V471K, CNR-10V511K, CNR-10V561K, CNR-14V471K, CNR-14V511K, CNR-14V561K	Min. 300V ac, Min.105°C, (tested by UL for 6KV/3KA combination pulse), coating V-0	IEC/EN 61051-1 IEC/EN 61051-2 UL 1449	VDE UL
Opto-coupler (OP1)	Everlight Electronics Co Ltd	EL1018, EL1019	Ext. Dcr. = 8.1mm 110°C	IEC/EN 60747-5-5, UL 1577	VDE UL
(Alternative)	CHINA RESOURCES SEMICONDUCTOR(SHENZHEN)LIMITED	1018, 1019, HK1018, HK1019	Ext. Dcr. = 8.0mm 110°C	IEC/EN 60747-5-5, UL 1577	VDE UL
(Alternative)	CT Micro International Corporation	CT1018, CT1019	Ext. Dcr. = 8.0mm 110°C	IEC/EN 60747-5-5, UL 1577	VDE UL
Opto-coupler (OP2) (optional)	Everlight Electronics Co Ltd	EL1018, EL1019	Ext. Dcr. = 8.1mm 110°C	IEC/EN 60747-5-5, UL 1577	VDE UL
(Alternative)	CHINA RESOURCES SEMICONDUCTOR(SHENZHEN)LIMITED	1018, 1019, HK1018, HK1019	Ext. Dcr. = 8.0mm 110°C	IEC/EN 60747-5-5, UL 1577	VDE UL
(Alternative)	CT Micro International Corporation	CT1018, CT1019	Ext. Dcr. = 8.0mm 110°C	IEC/EN 60747-5-5, UL 1577	VDE UL
Insulation cover on transformer	E I DUPONT DE NEMOURS & CO INC	FR530(l)(+)(f1), FR530L(l)(+)(f1)	V-0, 155 °C. min. thickness 0.4mm	UL 94	UL

Transformer (T2)	Shenzhen Fujia Appliance Co., Ltd.	2017-T1 (for output voltage 5.0-9.0V) 2017-T2 (for output voltage 9.5-19.5V) 2017-T3 (for output voltage 20.0-33.0V) 2017-T4 (for output voltage 36.0-54.0V)	Class B	Applicable part of IEC/EN 62368-1 and according to IEC 60085	Tested with appliance
- Bobbin	Sumitomo Bakelite Co. Ltd	PM-9820, PM-9630	Phenolic, V-0, 150°C, Min. thickness 0.9 mm	UL 94	UL
(Alternative)	Chang Chun Plastics	4130(100%Virgin) (a)(b)	PBT, V-0, 140 °C Min. thickness 0.9 mm	UL94	UL
- Secondary Triple insulated wire	Furukawa Electric Co.,Ltd.	TEX-E	130°C	IEC/EN 62368-1 UL 2353	VDE UL
-Tube	Great Holding Industrial Co Ltd	TFL, TFS, TFT	200°C	UL 224	UL
(Alternative)	Zeus Industrial Products Inc	TFE-LW-150, TFE-TW-300, TFE-SW-600	200°C	UL 224	UL
- Insulation tape	3M Corp	1350F-1(b), 1350-1(c)	130°C	UL 510	UL
(Alternative)	Jinjiang Yahua Sticking Tape Co Ltd	CT*(c)(g), PZ*(b)	130°C	UL 510	UL
(Alternate)	P Leo & Co (B C) Ltd	1P801, 1P802	130°C	UL 510	UL
-Varnish	Hitachi Chemical Co	WP-2952F-2G	130°C	UL 1446	UL

(Alternative)	ELANTAS ELECTRICAL INSULATION ELANTAS PDG INC	468-2(d)	130°C	UL 1446	UL

Note:

1) Bridge capacitor CY2 can not be used alone.

2) Opto-coupler OP2 is optional only for output voltage ≤ 33Vdc models, The other models it is provided.

Functional Components

Components which are required for performance purposes and not directly addressed by a component standard or product standard: Ripple capacitors, Mosfets, PCB, etc.

Object/part No.	Type/ model (optional)	Technical data
Protective bonding wire	Interchangeable	VW-1, Min.18AWG, 105°C
Output cord	Interchangeable	VW-1, 300V, Min. 24AWG, min. 80 °C
PCB	Interchangeable	V-0, 130°C
Thermistor (RT1) (optional)	Interchangeable	Min.3.0 A, Min.1.0Ω, at 25°C
Heat shrinkable tube used on F1, LF2	Interchangeable	VW-1, 600V, 125°C
Line filter (LF1) (Optional)	Interchangeable	Min.0.7mH, 130°C
Magnet wire	Interchangeable	130°C
Line filter (LF2) (Optional)	Interchangeable	Min.12mH,130°C
Bridge diode (BD1)	Interchangeable	Min. 2.0A, min. 600V
Electrolytic capacitor (C6)	Interchangeable	68-200µF, min. 400Vdc, min. 105°C
Transistor (Q3)	Interchangeable	Min. 7A, min. 600V
Current sense resistor (R1)	Interchangeable	Min. 0.47 ohm, Min. 1/2 W
Current sense resistor (R5) (output power<36W no	Interchangeable	Min. 0.47 ohm, Min. 1/4 W

Functional Components

Components which are required for performance purposes and not directly addressed by a component standard or product standard: Ripple capacitors, Mosfets, PCB, etc.

Object/part No.	Type/ model (optional)	Technical data
t provided, ≥36W optio nal)		
Current sense resistor (R29) (output power<36W no t provided, ≥36W optio nal)	Interchangeable	Min. 0.47 ohm, Min. 1/4 W
Bleeder resistor (R2, R3, R37, R38)	Interchangeable	Each max.1.8M ohm, min.1/4 W

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy



Figure 1. Overall view of unit



Figure 2. Overall view of unit (AC inlet: C14)

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy



Figure 3. Overall view of unit (AC inlet: C6)

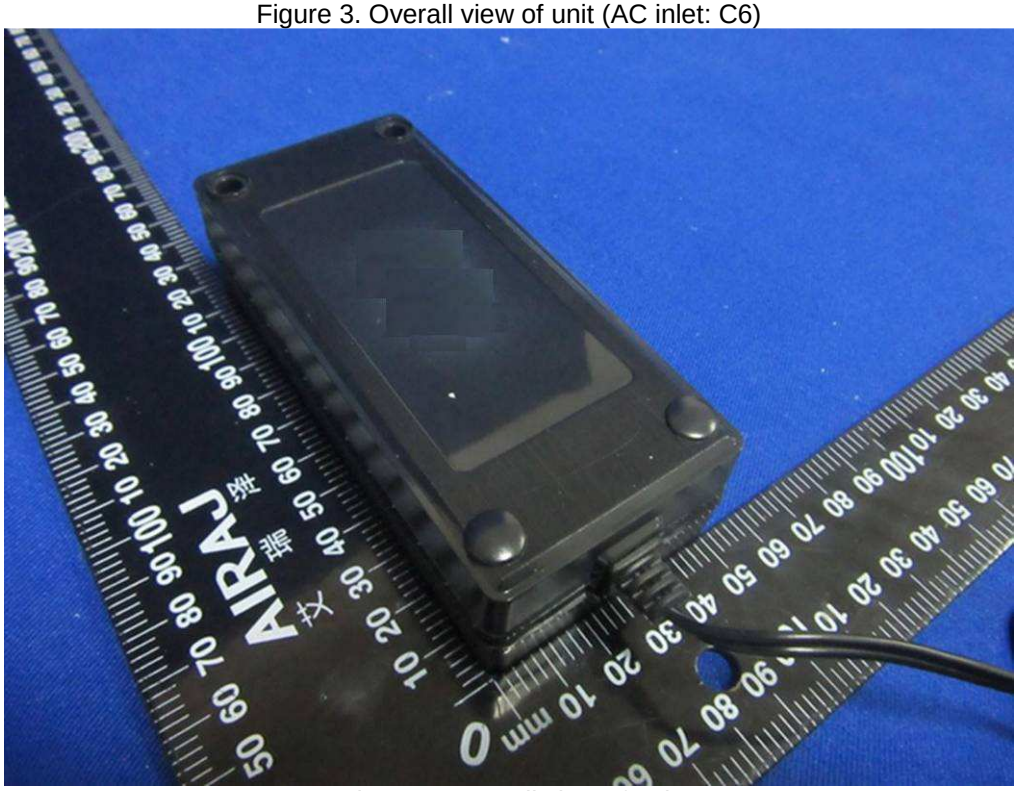


Figure 4. Overall view of unit

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

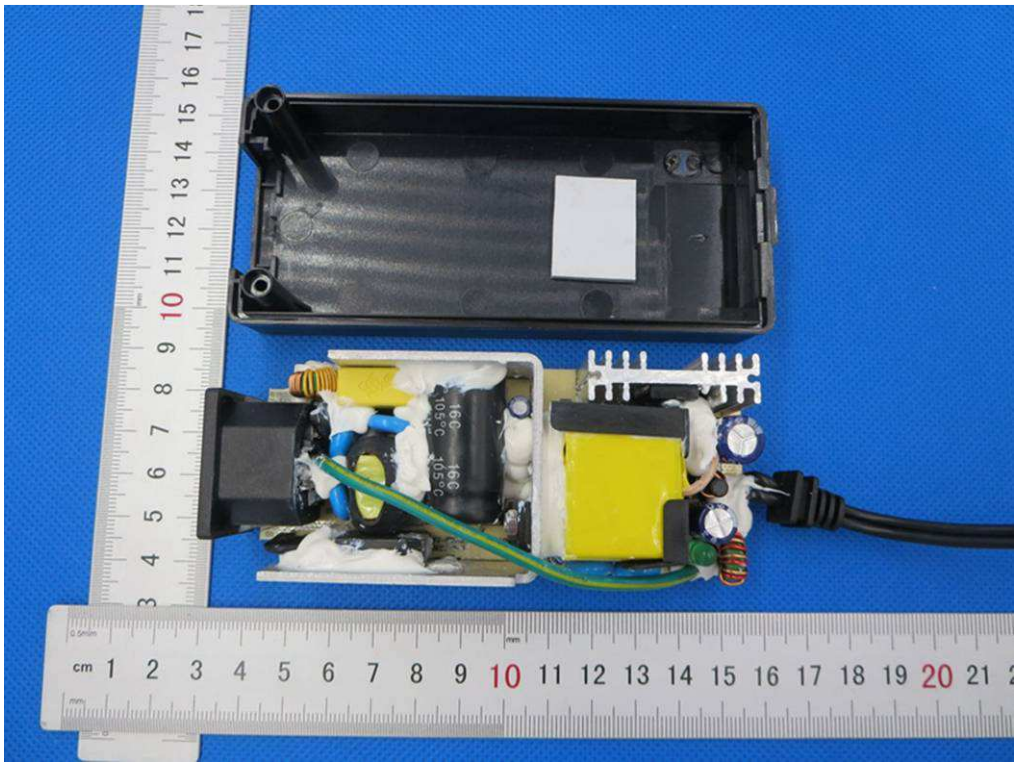


Figure 5. Internal view of unit

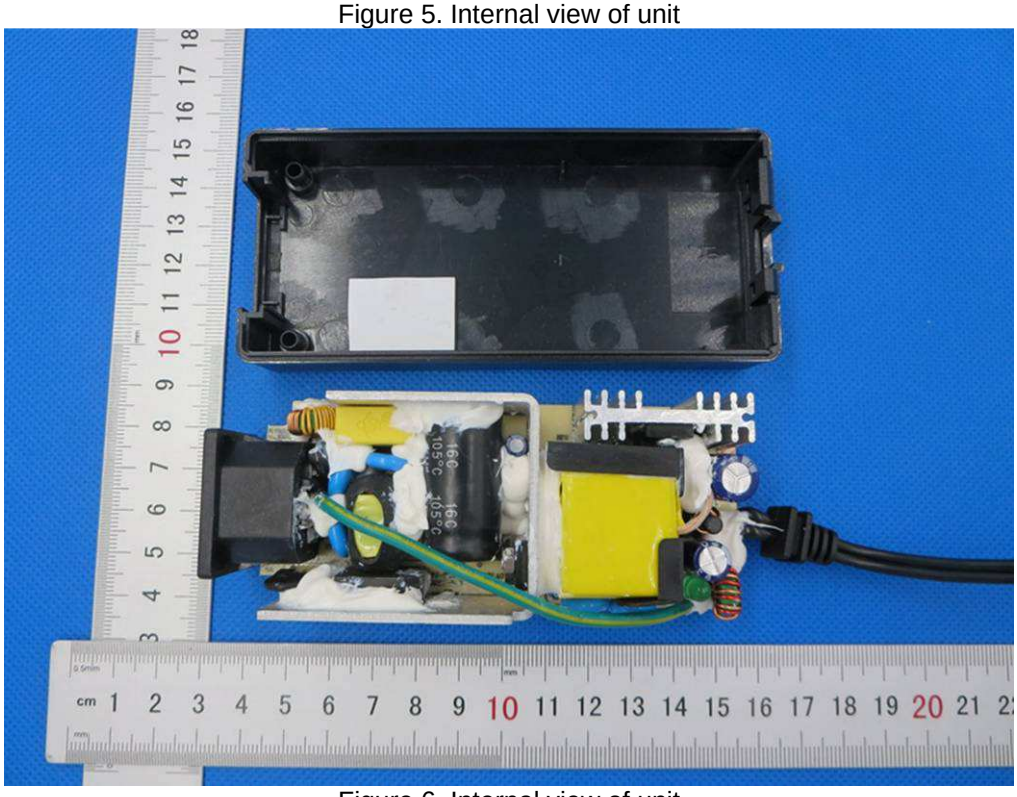


Figure 6. Internal view of unit

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

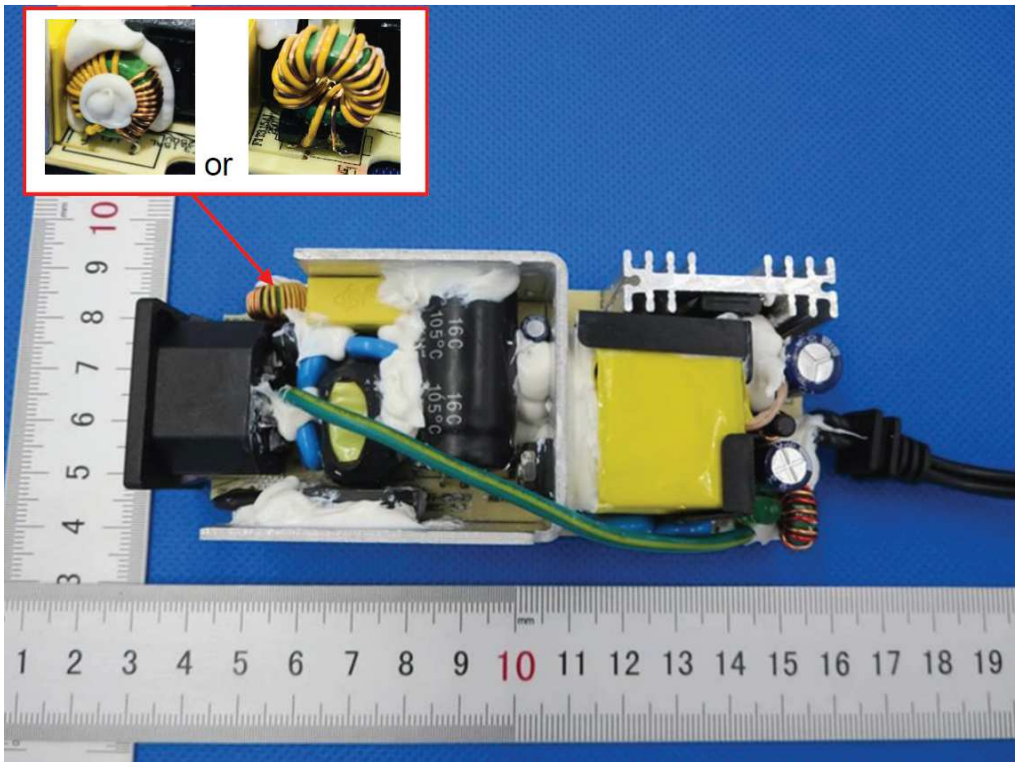


Figure 7. Internal view of unit

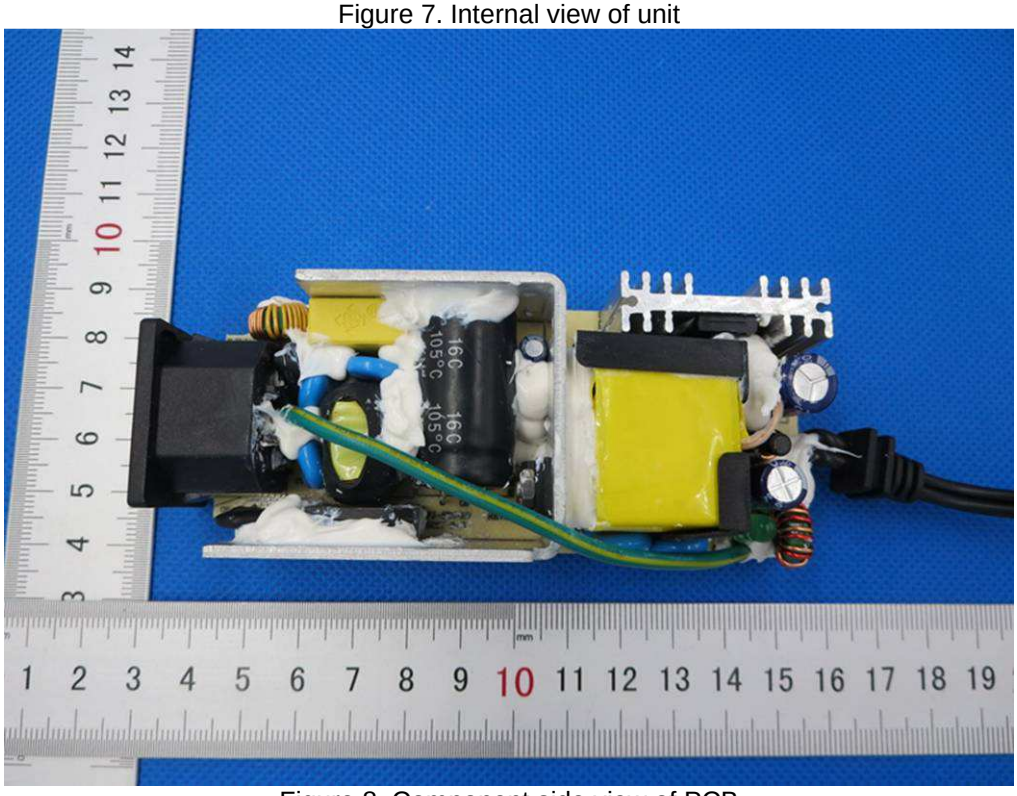


Figure 8. Component side view of PCB

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

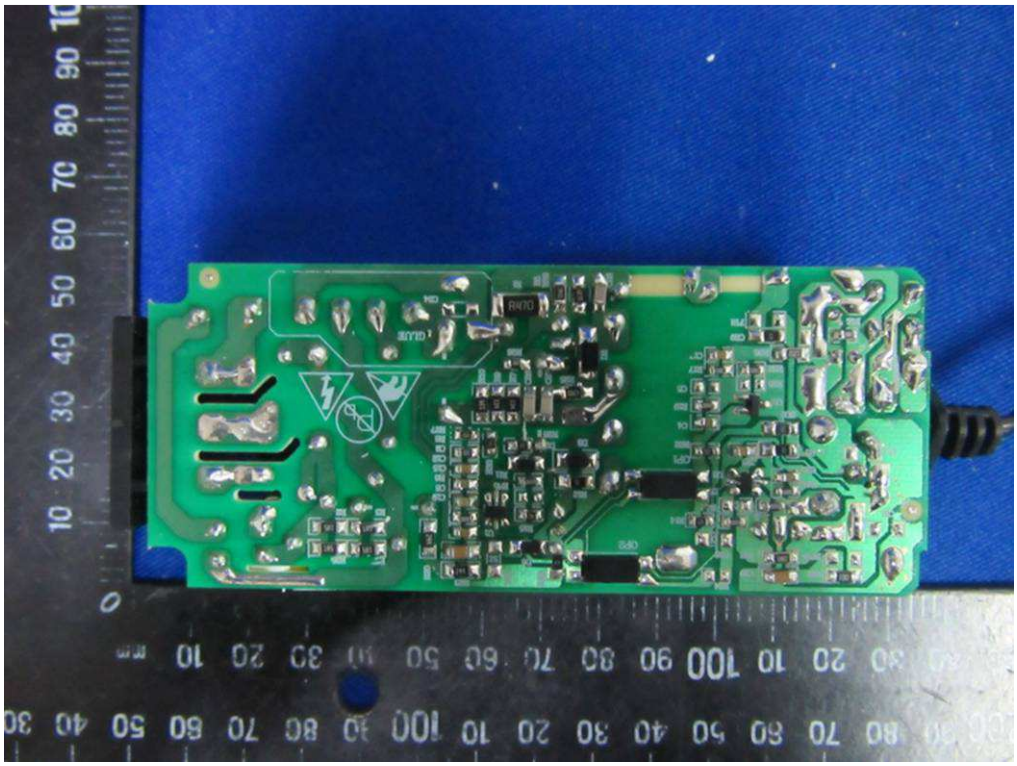


Figure 9. Trace side view of PCB

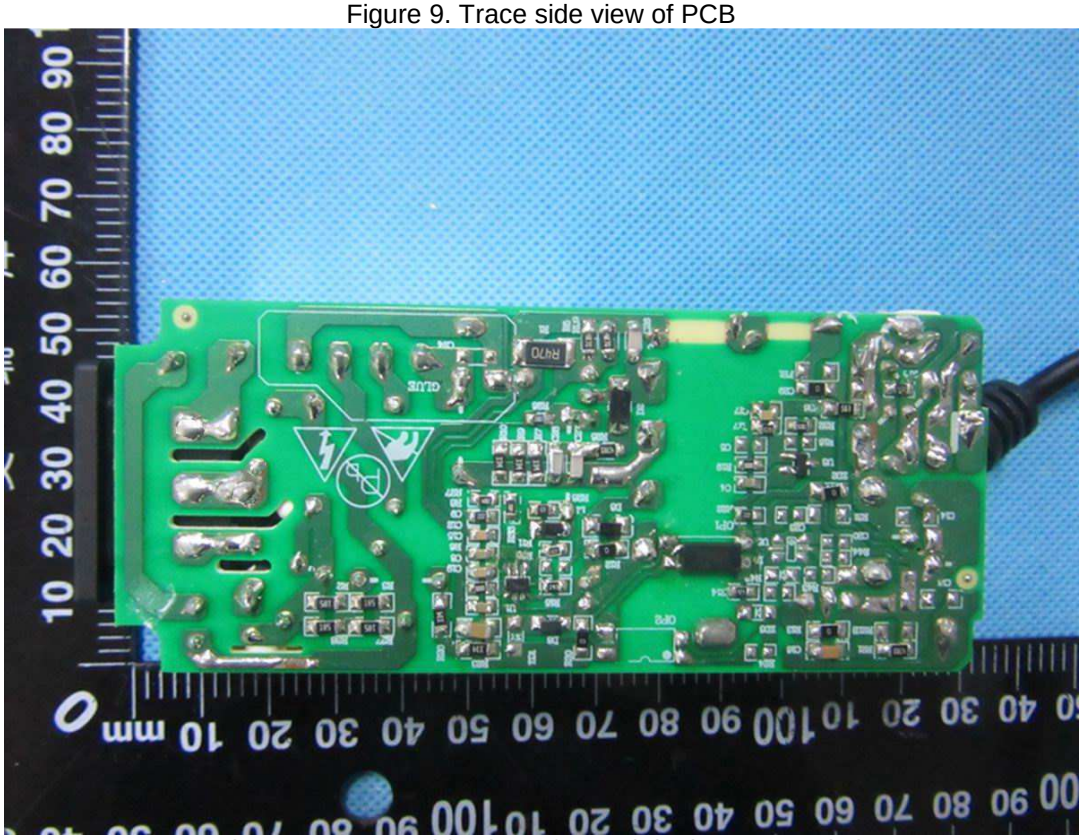


Figure 10. Trace side view of PCB (Single optocoupler)

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

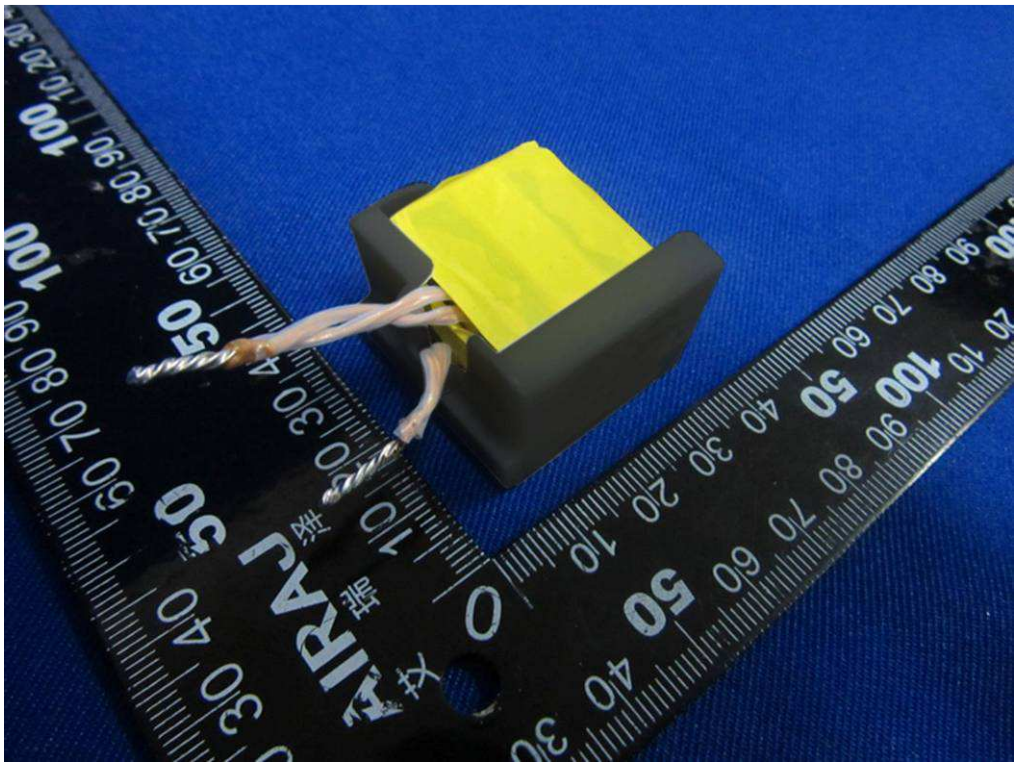


Figure 11. Overall view of transformer

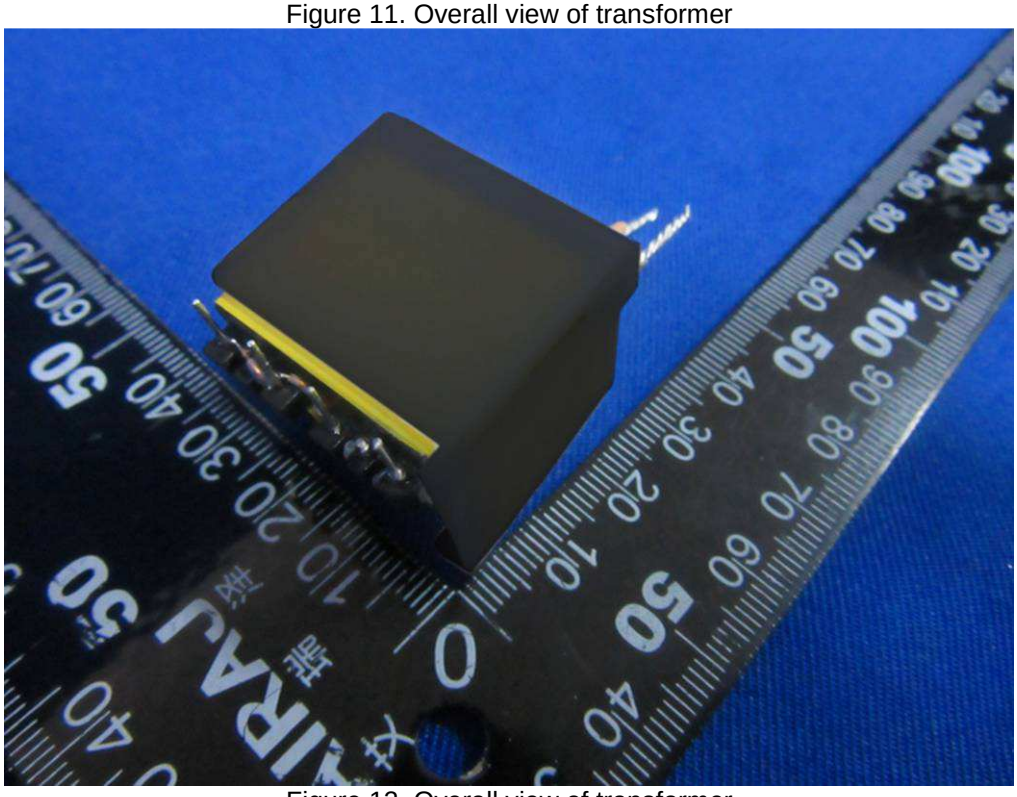


Figure 12. Overall view of transformer

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

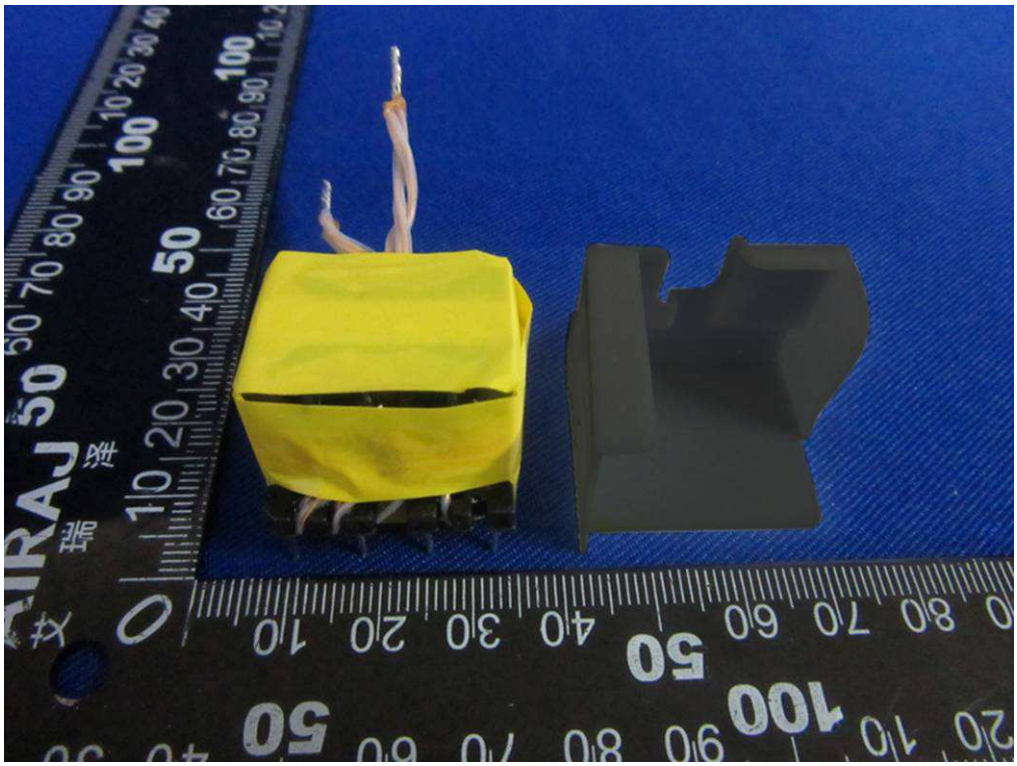


Figure 13. Detail view of transformer

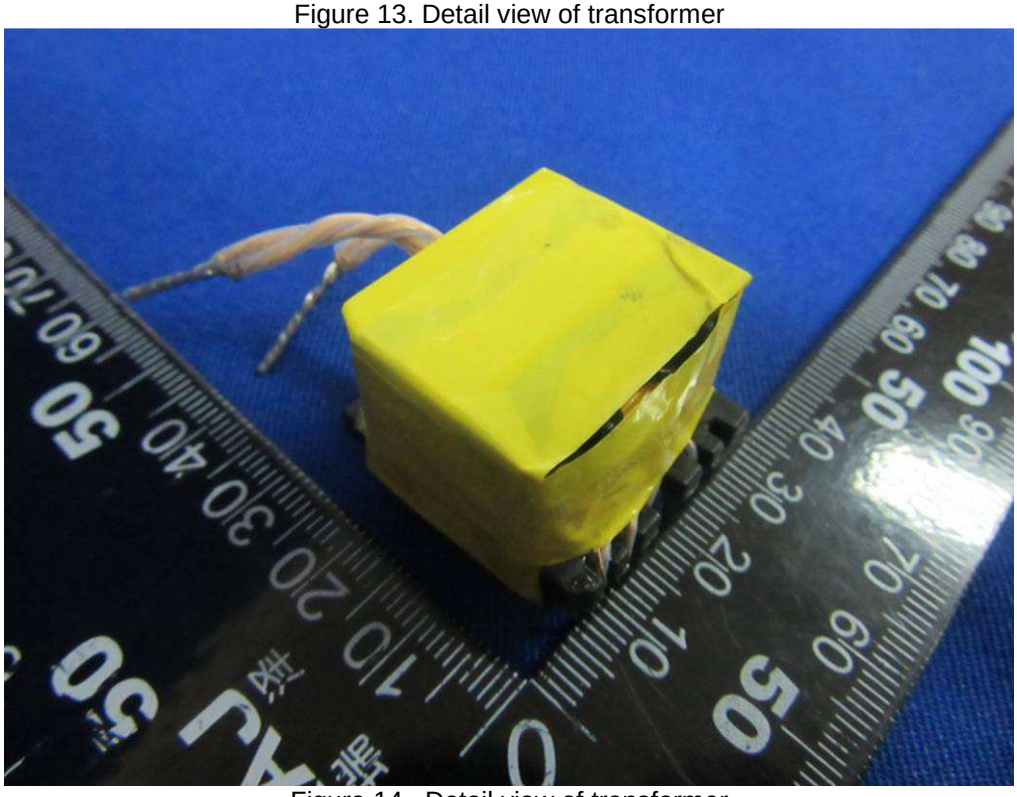


Figure 14. Detail view of transformer

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

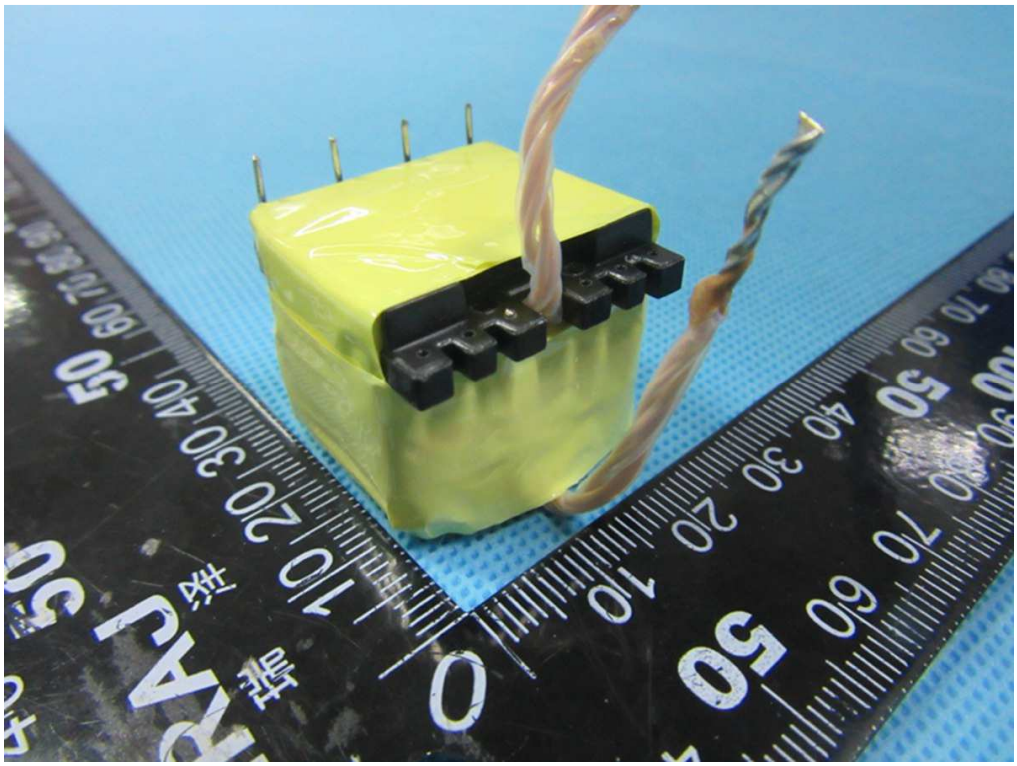


Figure 15. Detail view of transformer

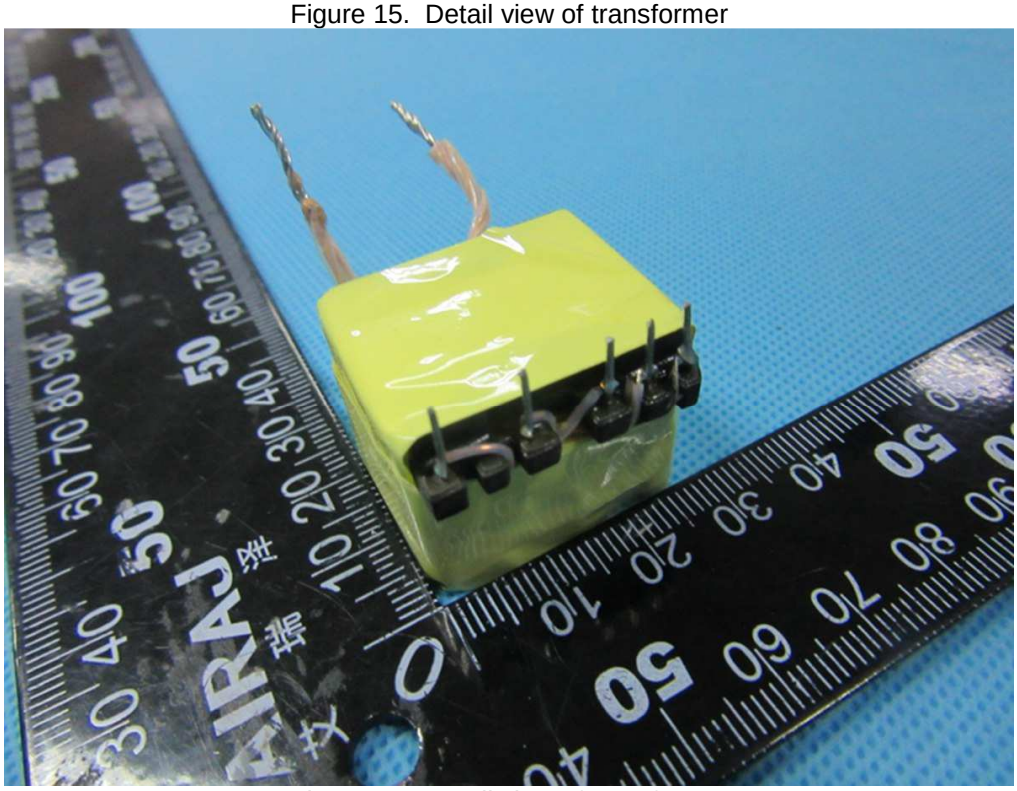


Figure 16. Detail view of transformer

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

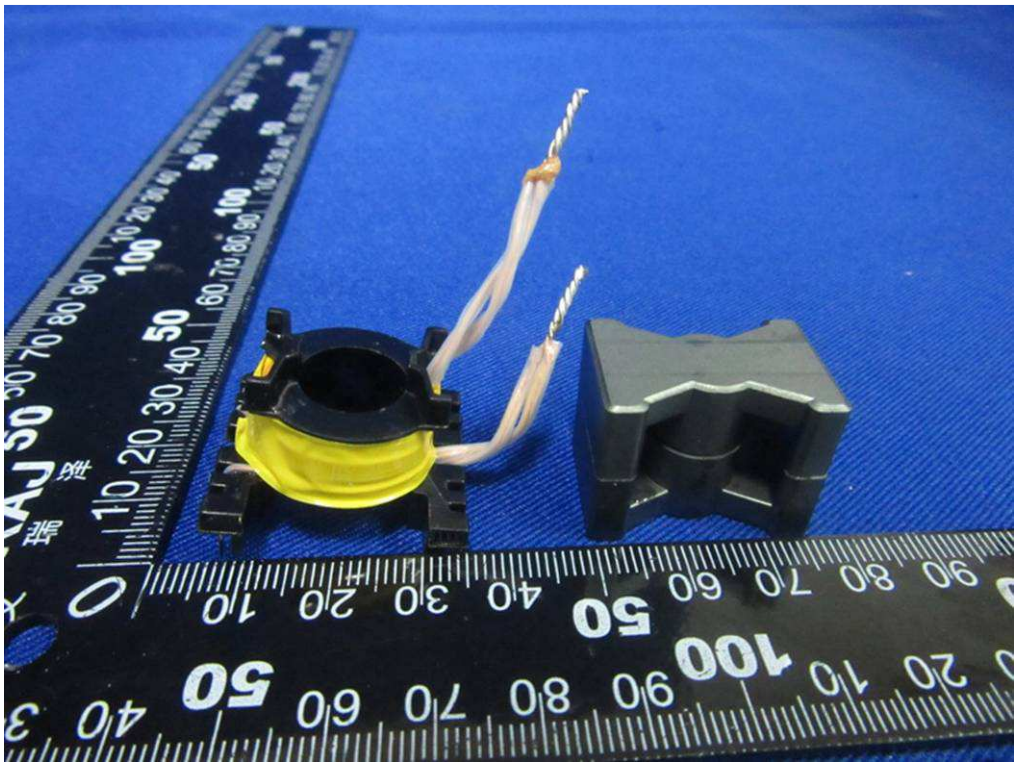


Figure 17. Detail view of transformer

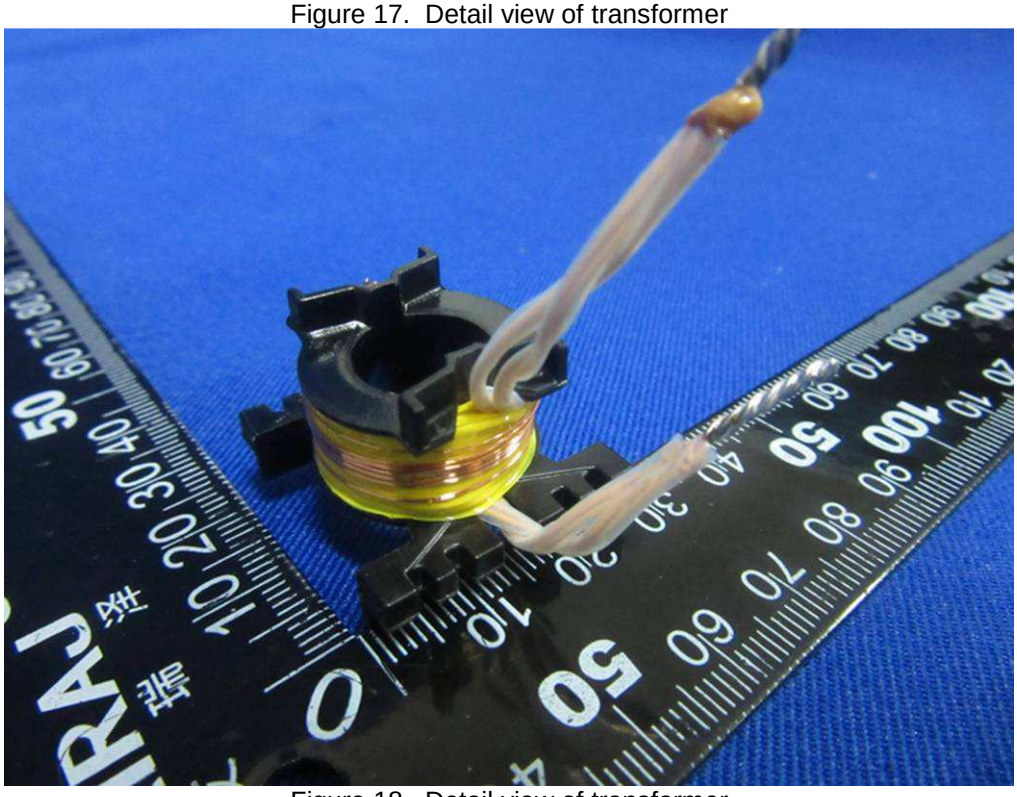


Figure 18. Detail view of transformer

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

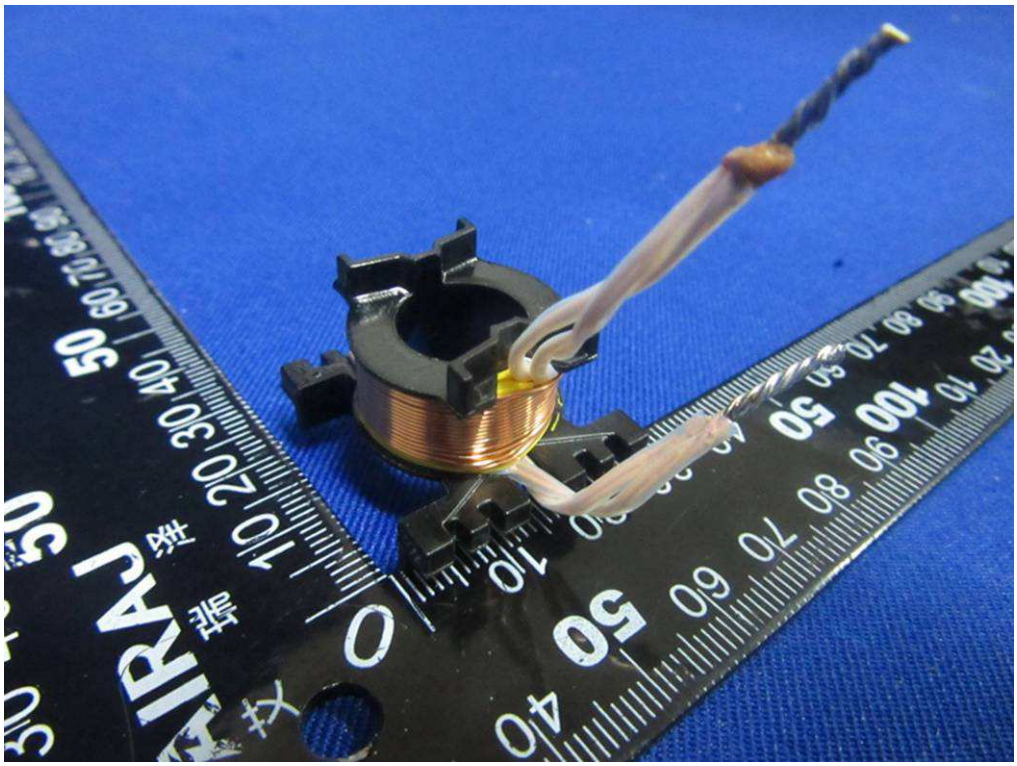


Figure 19. Detail view of transformer

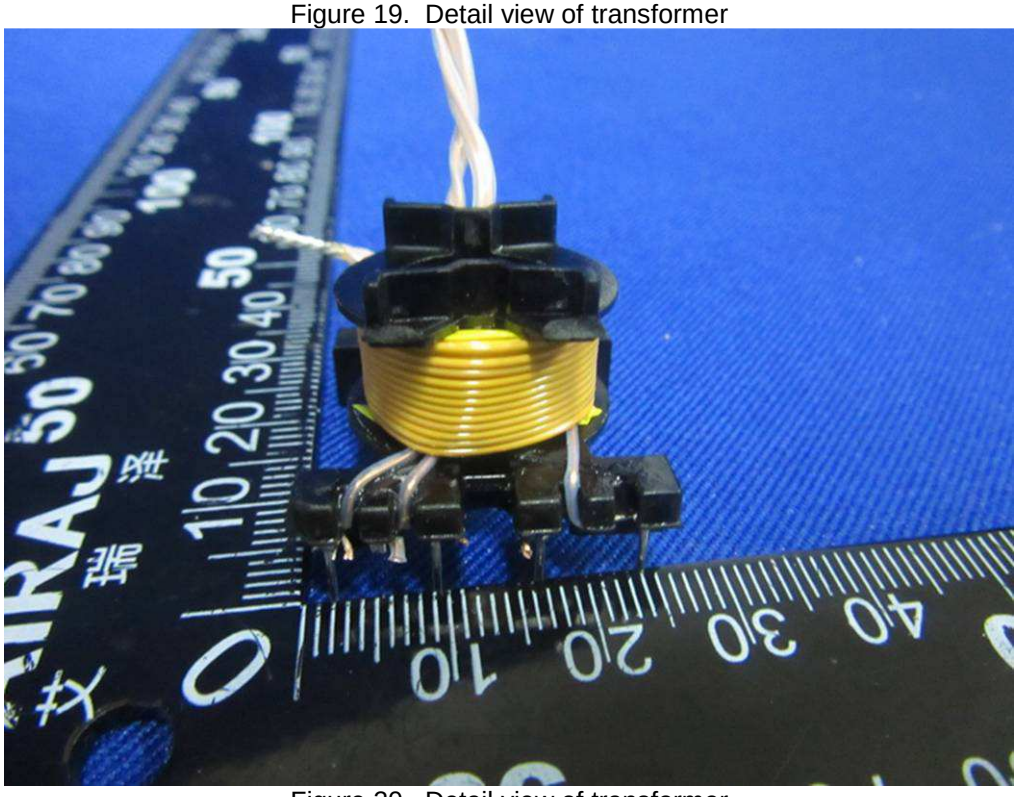


Figure 20. Detail view of transformer

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

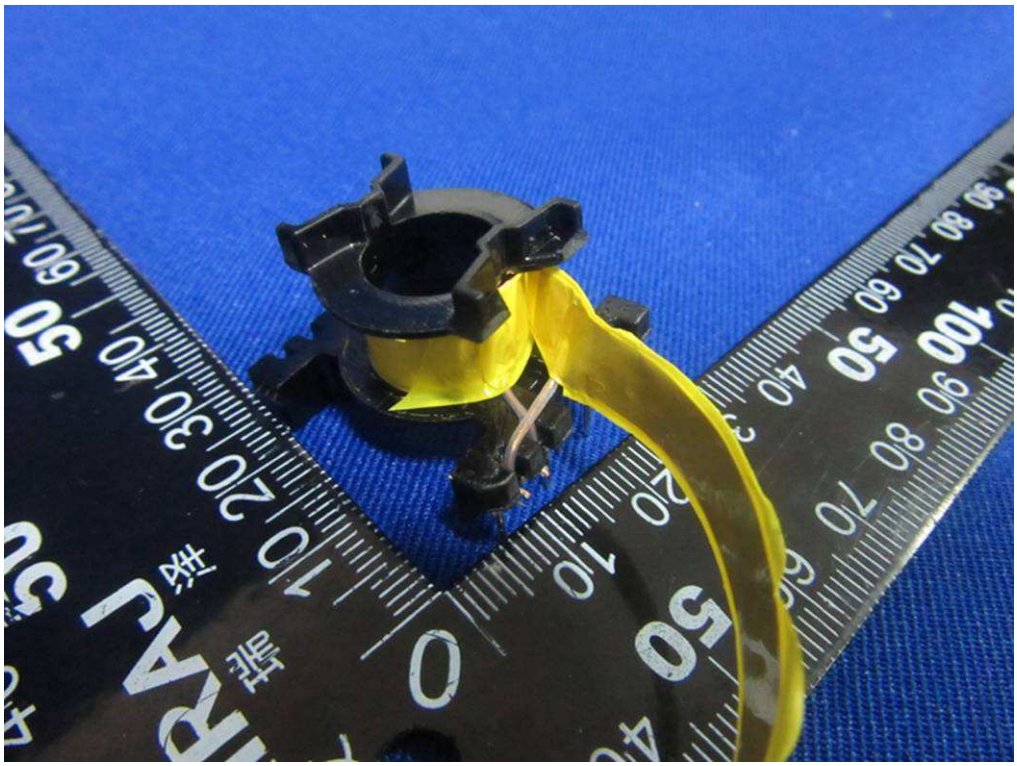


Figure 21. Detail view of transformer

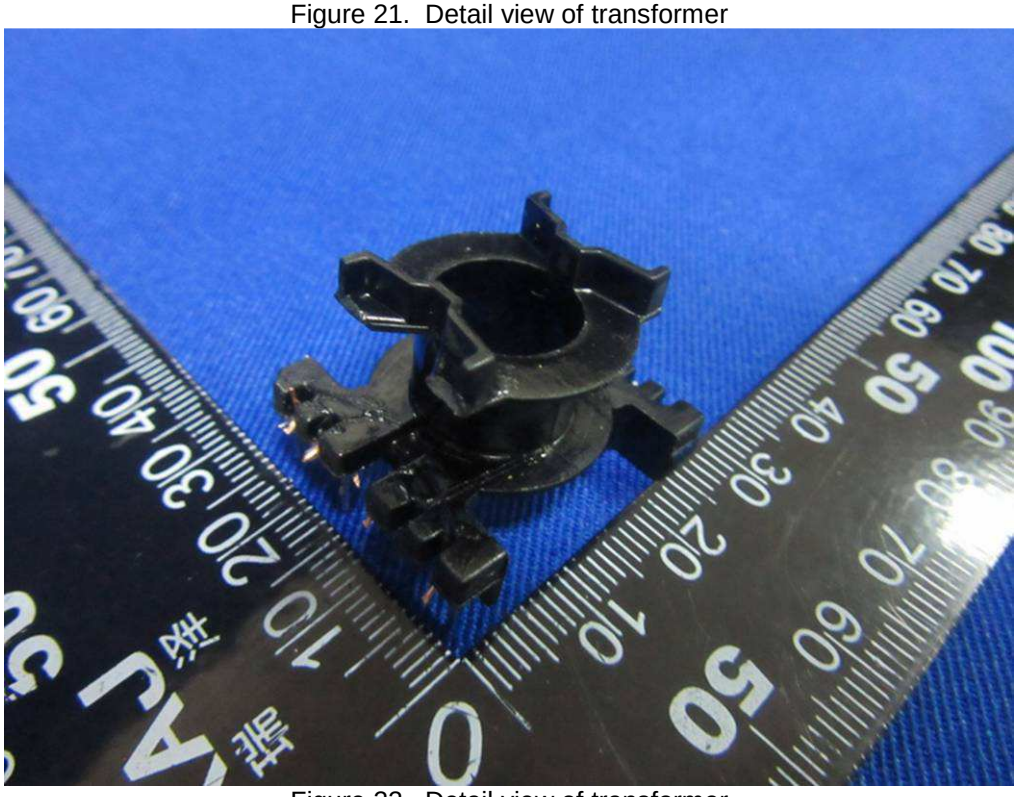


Figure 22. Detail view of transformer

Product: SWITCHING ADAPTER

Type Designation: FJ-SW2017xxxyyyy

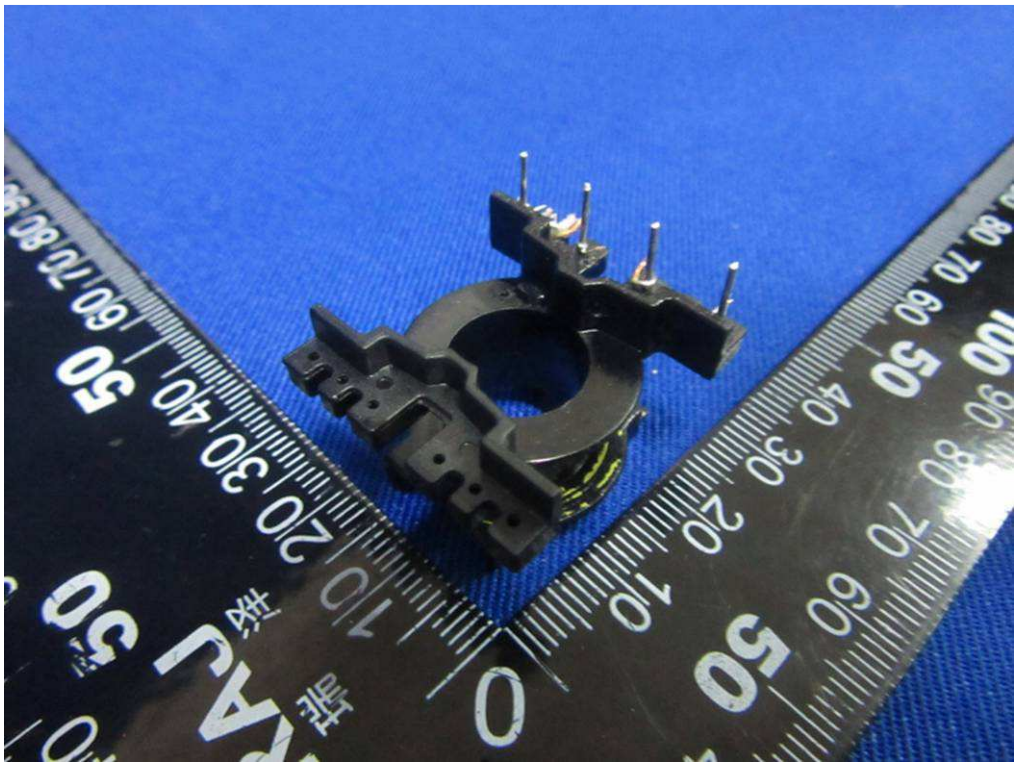


Figure 23. Detail view of transformer