

Prüfbericht-Nr.: Test report no.:	CN213XBV 001	Auftrags-Nr.: Order no.:	168321092	Seite 1 von 2 Page 1 of 2
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2021-05-27	
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 ADAPTOR			
Bezeichnung / Typ-Nr.: Identification / Type no.:	FJ-SW126Gxxxxxyyn, FJ-SW726GxxxxxyyB (for definition of variables xxx, yyy and n, see table A for details)			
Auftrags-Inhalt: Order content:	TÜV Rheinland UKCA approval			
Prüfgrundlage: Test specification:	BS EN 62368-1:2014+A11			
Wareneingangsdatum: Date of sample receipt:	2021-05-27			
Prüfmuster-Nr.: Test sample no.:	A003033230			
Prüfzeitraum: Testing period:	2021-05-27 to 2021-06-28			
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			genehmigt von: authorized by: Jammy Zhang	
Datum: Date: 2021-06-29			Ausstellungsdatum: Issue date: 2021-06-29	
Stellung / Position: Project Engineer			Stellung / Position: Reviewer	
Sonstiges / Other: - see next page				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:				
* 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.				

V05

Sonstiges/ Other Aspects:

1. The test report is issued for TÜV Rheinland UKCA approval. This report is based on CB test reports 50158979 001 to 50158979 004 for models mentioned above to update the UK plug standard. The component and product construction is not changed. No additional test required.
2. Tested according to UKCA designated standards.
3. This report consists: 2 pages of this cover page, 24 pages of UK plug test report (Attachment 1), 12 pages of photo documentation (Attachment 2), 1 page of EMF assessment report (Attachment 3).

Table A: Definition of variables:

Variable:	Range of variable:	Content:
xxx	050-055, 080-150, 180-240	'xxx' are 3 digits indicating 10 times the output voltage value in V. For example, 080 represents the output voltage is 8.0Vdc, 150 represents the output voltage is 15.0Vdc;
yyyy	1000-3000	'yyyy' are 4 digits indicating 1000 times the output current value in A. For example, 1000 represents the output current is 1.0A, 3000 represents the output current is 3.0A.
n	B, N	Indicating one digit number to represent different plug type: "B" means United Kingdom fixed type plug, "N" means detachable United Kingdom plug provided.

BS 1363-1:2016+A1:2018

Clause	Requirement Test	Result – Remark	Verdict
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For model FJ-SW126GxxxxxyyyB

12	Construction of Plugs		P
12.1	The disposition of the pins shall be shown as figure 4.	The dispositions of the pins were shown as specified.	P
12.2	Pin and sleeve dimensions, body outline were checked according to figure 4 of BS1363: part 1.	The outline of the plug did not exceed the specified dimensions at a distance of 8.31mm from the engagement surface. (limit: >6.35mm) The measured dimensions of item shown in fig. 4 were found within the specified limits.	P
	The plug portion should enter the gauge fully with a force less than 10N was applied to the centre of the sample at right angle.	Sample was entered into the gauge completely.	P
12.3	No part of a line or neutral pin shall be less than 9,5mm from the periphery of the plug measured along the engagement surface.	Complied. 9.8mm measured from live or neutral to periphery of the plug.	P
12.9	Plug pins were constructed of brass	Complied.	P
12.9.1	Exposed surface of plug pins were smooth and free from burrs or sharp edges and other irregularities, which could cause damage or excessive wear to sockets or shutters.	Complied.	P
12.9.4	The adaptor plug pins were tested as specified in the standard.	Complied. After being subjected to a force of 1100N for L, N pin, 400N for ISOD pin, the pin portion could fit the relevant gauge.	P
12.9.6	Each pin of the adaptor was subjected to a torque of 1Nm for 60s as specified in the standard.	Complied. After the test, the pin portion could fit the relevant gauge.	P
12.11	The adaptors were tested as specified in the standard. After being placed in an oven at 70°C for 1 hour, each pin of the samples was subjected for 60 sec. to a pull of 100N in the oven.	Complied. After the above test, no plug pin was detached and the plug pins could fit the relevant gauge.	P
12.12	The degree of flexibility of mounting of the plug pins was checked according to 12.12.1	Measured value: Max. 30' (test on each sources of enclosure, max. value measured) (limit: Max. 3° 30').	P
12.16	Line and neutral plug pin shall be fitted with insulating sleeves. The dimensions of the pin and sleeve shall fall within the specific limit.	Complied. Both line and neutral pins were fitted with insulating sleeves.	P
12.17.1	Plug pin sleeve shall be compliance with 12.17.2 to 12.17.4	Complied.	P
12.17.2	Electric strength test applied between the metal part of plug pin and the sleeve (1250±30V)	Complied. No breakdown or flashover occurs.	P

BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict
12.17.3	Abrasion test for plug pin sleeve The plug pin sleeves were subjected to 20000 movements of abrasion as specified in the standard.	Complied. After the test, the sleeves showed no damage that impaired further use and could satisfy the electric strength test in 12.17. 2	P
12.17.4	The plug pins with sleeves were placed in a heating cabinet at 200°C and tested according to the standard for 120min. Arrange the test as Figure 10 of BS 1363-1.	After the test, the thickness of sleeves of plug pins (Line and neutral pins) remaining at the impression point reduced by max. 21.7% less than 50%. Before test: 0.60mm After test: 0.47mm	P
22.2	Parts of insulating material shall be sufficiently resistant to heat and still shaving its location and function.	Complied. See 22.2.1	P
22.2.1	Compliance checked as follows: a) Parts of ceramic material are used; b) external parts of plugs tested according to 22.1.3; c) all other parts of insulating material including ISOD subjected to the ball pressure at a temperature of 75°C ± 5°C	See appended table 22.2.1	P
23	Resistance to abnormal heat, fire and tracking		P
23.1	Plugs shall be proof against abnormal heat, fire and tracking		P
23.1.1	Compliance shall be checked by the test described in 23.2		P
23.2	Glow-wire test The test is performed according to BS EN 60695-2-11:2014 and at the test temperature given in Table 10 a) Parts necessary to retain live parts in position including ISOD were tested at 750°C. b) Parts not necessary to retain live in position were tested at 650°C.	See appended table 23.2	P
Additional requirement for the solid insulated shutter opening device (ISOD) according to BS1363-1			
12.2	Plug fitted with an ISOD shall comply with all the dimensions specified in Fig. 4a with exception of the width of the ISOD, which should be 4,05mm max. and 3,90mm min. and its height which should be 8,05mm max. and 7,75mm min.	See measured dimensions in Table 3	P
12.9.4	Solid insulated opening device were tested as specified in the standard.	After being subjected to a forced of 400N, the pin could fit the relevant gauge.	P

BS 1363-1:2016+A1:2018

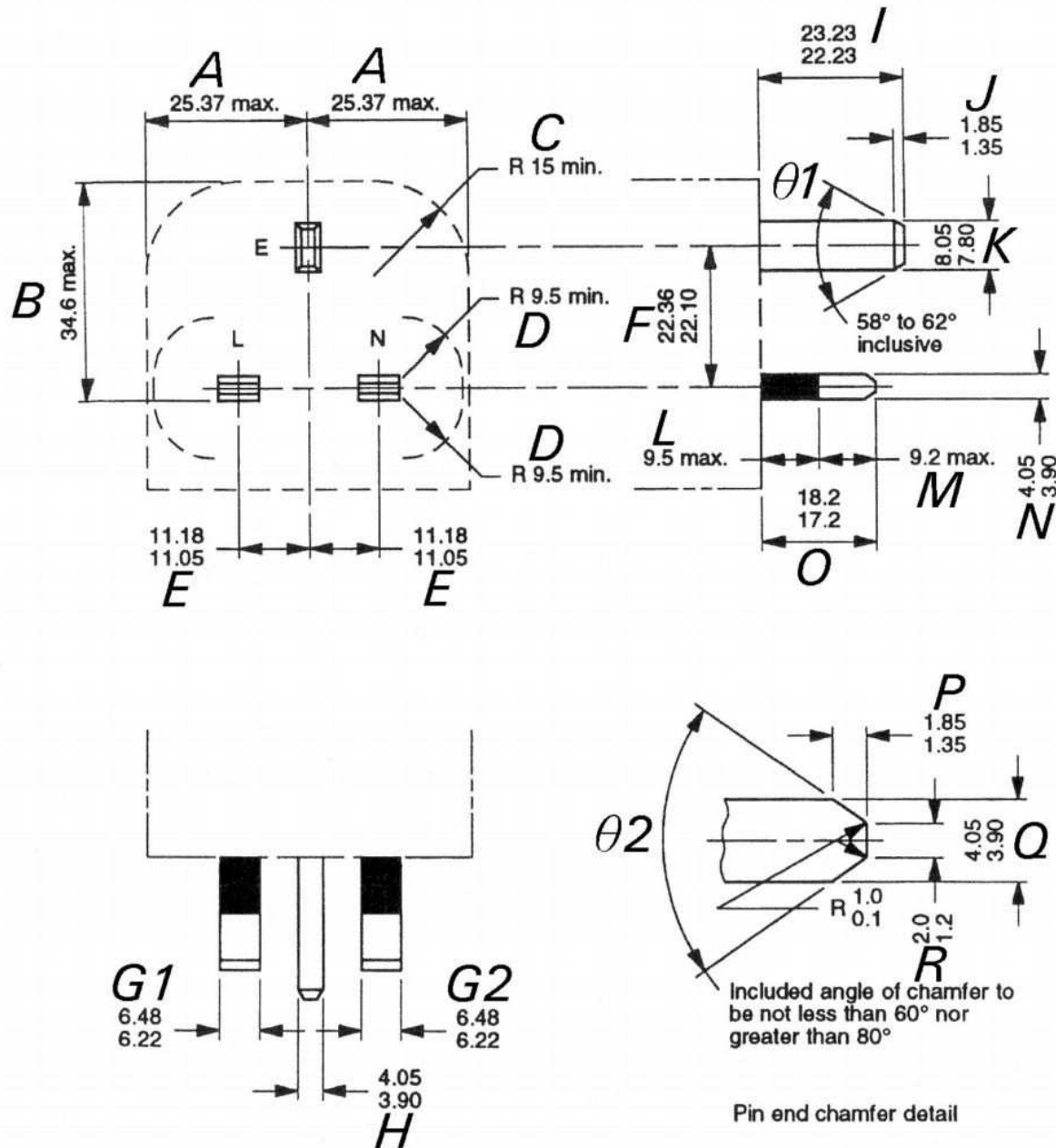
Clause	Requirement Test	Result – Remark	Verdict
12.9.5	Plugs with ISOD shall not cause excessive wear to socket contacts or shutters of sockets-outlets The test use a separate sample of plug with ISOD for each type of socket-outlet, with each sample being inserted into and withdrawn from the socket-outlet at a rate of 6 insertions and 6 withdrawals per minute, the speed of travel of the plug being approximately 150mm/s	After 5000 insertions and withdrawals completed, socket outlets show no damage that would impair further use. Plugs show no damage and suit for the dimensional requirements according to clause 12.2. The shutters of the socket-outlets operate satisfactorily and socket contacts safety shielded.	P
12.9.6	ISOD of the adapter was subjected to a torque of 1Nm for 60s as specified in the standard.	After the test, the pin portion could fit the relevant gauge.	P

22.2.1	TABLE: Ball-pressure test						
Specimen				Ball-pressure test			
Part	Material	Material-thickness [mm]	Colour	[C°]	Measured [mm]	Required [mm]	Result
Plug portion (including ISOD)	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	125	1.3	< 2.0	Pass
Supplementary information:							

BS 1363-1:2016+A1:2018									
Clause	Requirement Test				Result – Remark			Verdict	
23.2	TABLE: Glow-wire-test [60 s]								
Specimen				Flame					
Part	Material	Material-thickness [mm]	Colour	[°C]	Start [s]	End [s]	Height [mm]	Ignition of tissue paper	Result
Enclosure	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	650	--	--	--	No	Pass
Enclosure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD / PC2330	--	--	650	--	--	--	No	Pass
Enclosure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD / PC2370(a1)(f1)	--	--	650	--	--	--	No	Pass
Plug portion (including ISOD)	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	750	--	--	--	No	Pass
Supplementary information:									

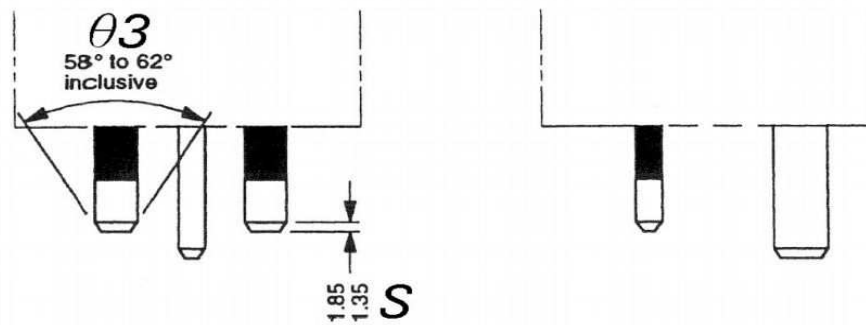
BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict

Interchangeable UK plug portion for switching power adapter

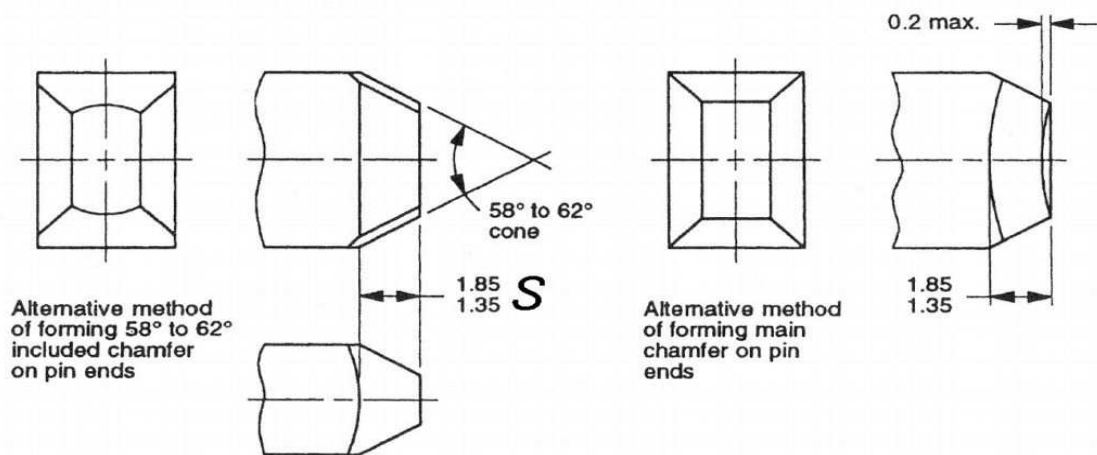


All dimensions are in millimetres.

BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict



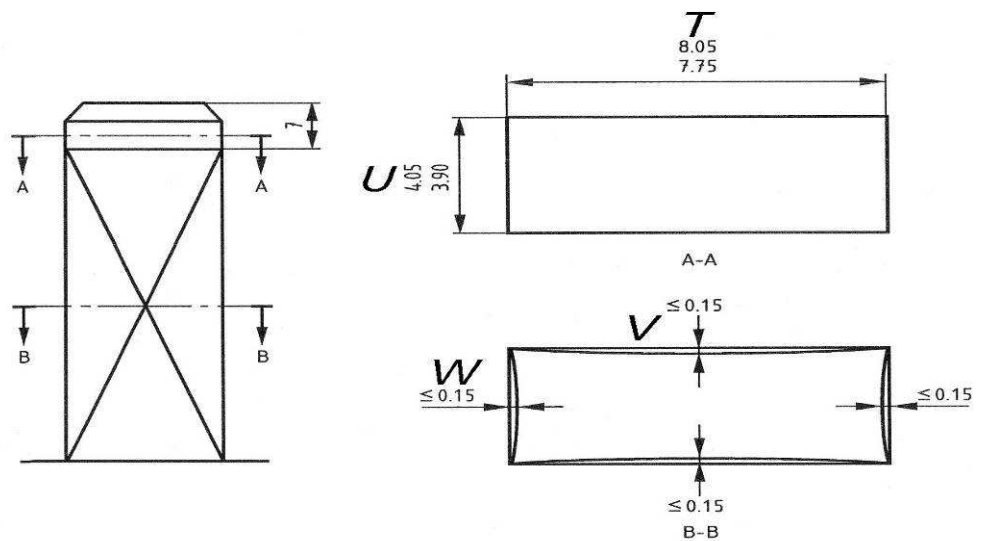
Permitted additional chamfers on L and N pins
(if additional chamfer is used it has to be on both pins)



All dimensions are in millimetres.

NOTE 1. External edges of pins are to be free from burrs or sharp edges and may have a radius not exceeding 1 mm.

NOTE 2. The surfaces of pins are to be flat within the specified tolerances.



Solid insulated shutter opening device (ISOD)

NOTE Section A-A to be measured away from chamfer as shown.

BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict

Appendix 1 (Refer to 12.2)

13A Plug Portion Dimensions

<u>Linear Dimensions (mm)</u>	<u>Measurement (sample A)</u>	<u>Measurement (sample B)</u>	<u>Measurement (sample C)</u>	<u>Limit</u>	<u>Verdict</u>
A	24.41	24.50	24.46	25.37 max.	P
B	34.40	34.30	34.35	34.6 max.	P
C	1)	1)	1)	15 min.	P
D	9.80	9.78	9.79	9.5 min.	P
E (from L to E)	11.10	11.12	11.08	11.05 - 11.18	P
(from N to E)	11.10	11.12	11.08		P
F	22.15	22.16	22.20	22.10 - 22.36	P
G1	6.25	6.30	6.28	6.22 – 6.48	P
G2	6.25	6.30	6.28	6.22 – 6.48	P
H	3.99	3.98	3.96	3.90 – 4.05	P
I	22.75	22.78	22.80	22.23 – 23.23	P
J	1.80	1.79	1.78	1.35 – 1.85	P
K	7.92	7.96	7.95	7.80 - 8.05 (7.75 - 8.05 For ISOD)	P
L (line)	9.10	9.13	9.20	9.5 max.	P
(neutral)	9.10	9.13	9.20		P
M (line)	8.75	8.80	8.78	9.2 max.	P
(neutral)	8.75	8.80	8.78		P
N (line) (sleeve)	3.98	3.95	4.00	3.90 – 4.05	P
(neutral) (sleeve)	3.98	3.95	4.00		P
O (line)	17.85	17.93	17.98	17.20 – 18.20	P
(neutral)	17.85	17.93	17.98		P
P (line)	1.62	1.70	1.66	1.35 – 1.85	P

BS 1363-1:2016+A1:2018					
Clause	Requirement Test		Result – Remark		Verdict
(neutral)	1.62	1.70	1.66		P
(earth)	1.80	1.78	1.77		P
Q (line) (metal)	3.98	3.94	3.98	3.90 – 4.05	P
(neutral) (metal)	3.98	3.94	3.98		P
(earth)	4.01	4.00	4.00		P
R (line)	1.60	1.68	1.63	1.2 – 2.0	P
(neutral)	1.60	1.68	1.63		P
(earth)	1.33	1.30	1.31		P
S (line/ neutral)	1.62 / 1.61	1.60 / 1.61	1.62 / 1.61	1.35 – 1.85	P
θ1	61°	60°	61°	58° – 62°	P
θ2 (line/ neutral)	76° / 76°	74° / 74°	75° / 75°	60° – 80°	P
(earth)	68°	72°	72°		P
θ3	60°	61°	60°	58° – 62°	P
¹⁾ The outline of the plug is different from shown in figure, but it can insert the gauge fully with a force less than 10 N. So the dimension C is not applicable for the case.					

For solid insulated shutter opening device

<u>Linear Dimensions (mm)</u>	<u>Measurement (sample A)</u>	<u>Measurement (sample B)</u>	<u>Measurement (sample C)</u>	<u>Limit</u>	<u>Verdict</u>
T	7.92	7.96	7.95	7.75 – 8.05	P
U	4.01	4.00	4.00	3.90 – 4.05	P
V (E → L)	0.12	0.12	0.13	0.15 max.	P
(E → N)	0.12	0.13	0.12	0.15 max.	P
W (E → Top)	0.11	0.13	0.13	0.15 max.	P
(E → L&N)	0.11	0.12	0.13	0.15 max.	P

BS 1363-1:2016+A1:2018

Clause	Requirement Test	Result – Remark	Verdict
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For model FJ-SW126GxxxxyyyN

12	Construction of Plugs		P
12.1	The disposition of the pins shall be shown as figure 4.	The dispositions of the pins were shown as specified.	P
12.2	Pin and sleeve dimensions, body outline were checked according to figure 4 of BS1363: part 1.	The outline of the plug did not exceed the specified dimensions at a distance of 10.03mm from the engagement surface. (limit: >6.35mm) The measured dimensions of item shown in fig. 4 were found within the specified limits.	P
	The plug portion should enter the gauge fully with a force less than 10N was applied to the centre of the sample at right angle.	Sample was entered into the gauge completely.	P
12.3	No part of a line or neutral pin shall be less than 9,5mm from the periphery of the plug measured along the engagement surface.	Complied. 9.8mm measured from live or neutral to periphery of the plug.	P
12.9	Plug pins were constructed of brass	Complied.	P
12.9.1	Exposed surface of plug pins were smooth and free from burrs or sharp edges and other irregularities, which could cause damage or excessive wear to sockets or shutters.	Complied.	P
12.9.4	The adaptor plug pins were tested as specified in the standard.	Complied. After being subjected to a force of 1100N for L, N pin, 400N for ISOD pin, the pin portion could fit the relevant gauge.	P
12.9.6	Each pin of the adaptor was subjected to a torque of 1Nm for 60s as specified in the standard.	Complied. After the test, the pin portion could fit the relevant gauge.	P
12.11	The adaptors were tested as specified in the standard. After being placed in an oven at 70°C for 1 hour, each pin of the samples was subjected for 60 sec. to a pull of 100N in the oven.	Complied. After the above test, no plug pin was detached and the plug pins could fit the relevant gauge.	P
12.12	The degree of flexibility of mounting of the plug pins was checked according to 12.12.1	Measured value: Max. 30' (test on each sources of enclosure, max. value measured) (limit: Max. 3° 30').	P
12.16	Line and neutral plug pin shall be fitted with insulating sleeves. The dimensions of the pin and sleeve shall fall within the specific limit.	Complied. Both line and neutral pins were fitted with insulating sleeves.	P
12.17.1	Plug pin sleeve shall be compliance with 12.17.2 to 12.17.4	Complied.	P
12.17.2	Electric strength test applied between the metal part of plug pin and the sleeve (1250±30V)	Complied. No breakdown or flashover occurs.	P

BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict
12.17.3	Abrasion test for plug pin sleeve The plug pin sleeves were subjected to 20000 movements of abrasion as specified in the standard.	Complied. After the test, the sleeves showed no damage that impaired further use and could satisfy the electric strength test in 12.17. 2	P
12.17.4	The plug pins with sleeves were placed in a heating cabinet at 200°C and tested according to the standard for 120min. Arrange the test as Figure 10 of BS 1363-1.	After the test, the thickness of sleeves of plug pins (Line and neutral pins) remaining at the impression point reduced by max. 21.7% less than 50%. Before test: 0.60mm After test: 0.47mm	P
22.2	Parts of insulating material shall be sufficiently resistant to heat and still shaving its location and function.	Complied. See 22.2.1	P
22.2.1	Compliance checked as follows: a) Parts of ceramic material are used; b) external parts of plugs tested according to 22.1.3; c) all other parts of insulating material including ISOD subjected to the ball pressure at a temperature of 75°C ± 5°C	See appended table 22.2.1	P
23	Resistance to abnormal heat, fire and tracking		P
23.1	Plugs shall be proof against abnormal heat, fire and tracking		P
23.1.1	Compliance shall be checked by the test described in 23.2		P
23.2	Glow-wire test The test is performed according to BS EN 60695-2-11:2014 and at the test temperature given in Table 10 c) Parts necessary to retain live parts in position including ISOD were tested at 750°C. d) Parts not necessary to retain live in position were tested at 650°C.	See appended table 23.2	P
Additional requirement for the solid insulated shutter opening device (ISOD) according to BS1363-1			
12.2	Plug fitted with an ISOD shall comply with all the dimensions specified in Fig. 4a with exception of the width of the ISOD, which should be 4,05mm max. and 3,90mm min. and its height which should be 8,05mm max. and 7,75mm min.	See measured dimensions in Table 3	P
12.9.4	Solid insulated opening device were tested as specified in the standard.	After being subjected to a forced of 400N, the pin could fit the relevant gauge.	P

BS 1363-1:2016+A1:2018

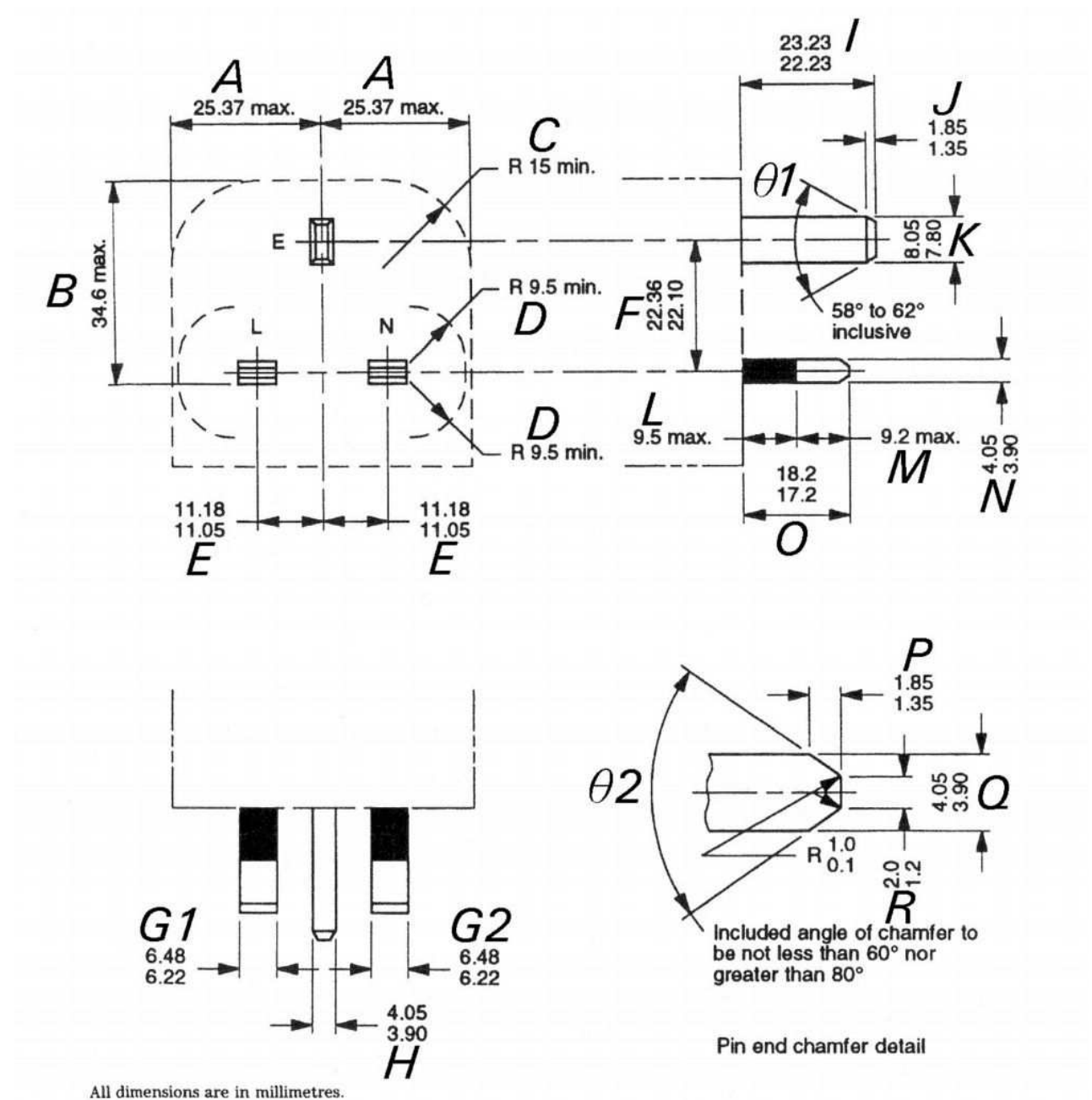
Clause	Requirement Test	Result – Remark	Verdict
12.9.5	Plugs with ISOD shall not cause excessive wear to socket contacts or shutters of sockets-outlets The test use a separate sample of plug with ISOD for each type of socket-outlet, with each sample being inserted into and withdrawn from the socket-outlet at a rate of 6 insertions and 6 withdrawals per minute, the speed of travel of the plug being approximately 150mm/s	After 5000 insertions and withdrawals completed, socket outlets show no damage that would impair further use. Plugs show no damage and suit for the dimensional requirements according to clause 12.2. The shutters of the socket-outlets operate satisfactorily and socket contacts safety shielded.	P
12.9.6	ISOD of the adapter was subjected to a torque of 1Nm for 60s as specified in the standard.	After the test, the pin portion could fit the relevant gauge.	P

22.2.1	TABLE: Ball-pressure test						
Specimen				Ball-pressure test			
Part	Material	Material-thickness [mm]	Colour	[C°]	Measured [mm]	Required [mm]	Result
Plug portion (including ISOD)	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	125	1.3	< 2.0	Pass
Supplementary information:							

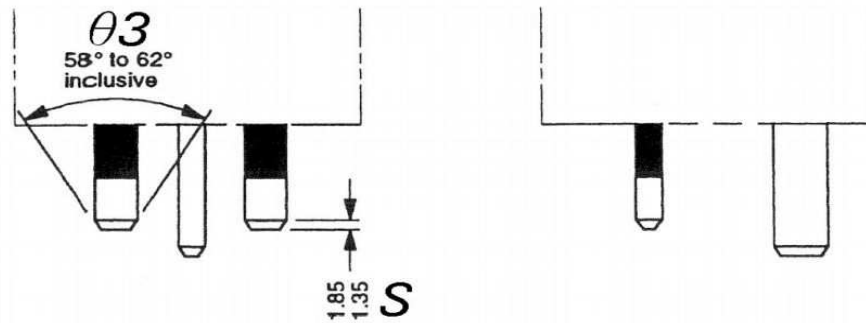
BS 1363-1:2016+A1:2018									
Clause	Requirement Test				Result – Remark			Verdict	
23.2	TABLE: Glow-wire-test [60 s]								
Specimen				Flame					
Part	Material	Material-thickness [mm]	Colour	[°C]	Start [s]	End [s]	Height [mm]	Ignition of tissue paper	Result
Enclosure	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	650	--	--	--	No	Pass
Enclosure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD / PC2330	--	--	650	--	--	--	No	Pass
Enclosure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD / PC2370(a1)(f1)	--	--	650	--	--	--	No	Pass
Plug portion (including ISOD)	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	750	--	--	--	No	Pass
Supplementary information:									

BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict

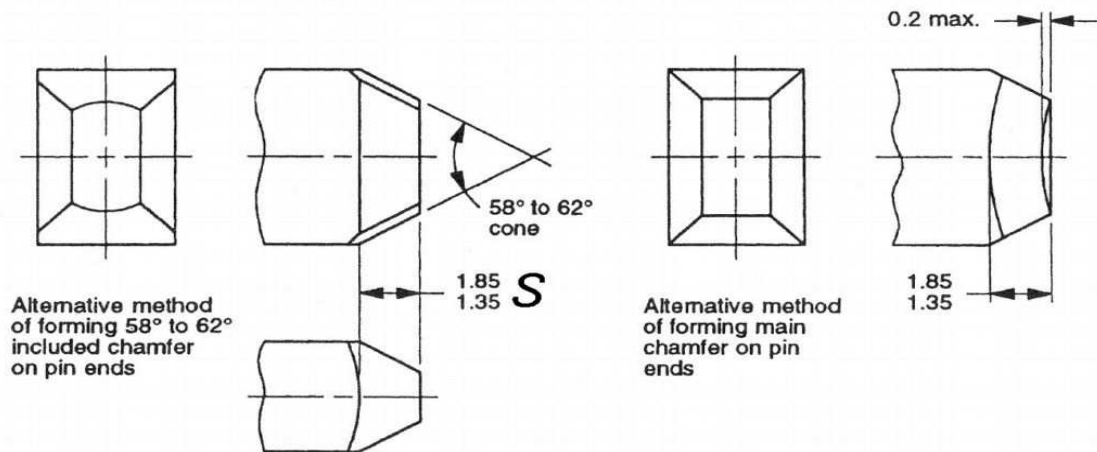
Interchangeable UK plug portion for switching power adapter



BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict



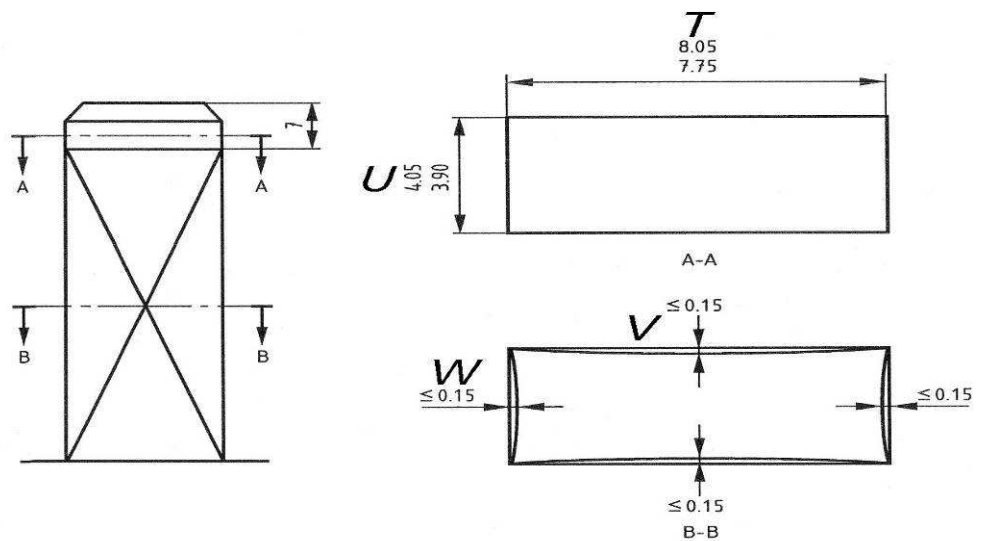
Permitted additional chamfers on L and N pins
(if additional chamfer is used it has to be on both pins)



All dimensions are in millimetres.

NOTE 1. External edges of pins are to be free from burrs or sharp edges and may have a radius not exceeding 1 mm.

NOTE 2. The surfaces of pins are to be flat within the specified tolerances.



Solid insulated shutter opening device (ISOD)

NOTE Section A-A to be measured away from chamfer as shown.

BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict

Appendix 1 (Refer to 12.2)

13A Plug Portion Dimensions

<u>Linear Dimensions</u> (mm)	<u>Measurement</u> (sample A)	<u>Measurement</u> (sample B)	<u>Measurement</u> (sample C)	<u>Limit</u>	<u>Verdict</u>
A	24.61	25.01	24.88	25.37 max.	P
B	34.14	34.08	34.10	34.6 max.	P
C	1)	1)	1)	15 min.	P
D	9.80	9.78	9.82	9.5 min.	P
E (from L to E)	11.14	11.14	11.10	11.05 - 11.18	P
(from N to E)	11.14	11.14	11.10		P
F	22.16	22.12	22.20	22.10 - 22.36	P
G1	6.28	6.30	6.26	6.22 – 6.48	P
G2	6.28	6.30	6.26	6.22 – 6.48	P
H	4.01	4.00	3.98	3.90 – 4.05	P
I	22.73	22.80	22.75	22.23 – 23.23	P
J	1.74	1.70	1.71	1.35 – 1.85	P
K	7.98	8.00	7.96	7.80 - 8.05 (7.75 - 8.05 For ISOD)	P
L (line)	9.36	9.40	9.38	9.5 max.	P
(neutral)	9.36	9.40	9.38		P
M (line)	8.33	8.30	8.41	9.2 max.	P
(neutral)	8.33	8.30	8.41		P
N (line) (sleeve)	3.91	3.90	3.95	3.90 – 4.05	P
(neutral) (sleeve)	3.91	3.90	3.95		P
O (line)	17.69	17.70	17.79	17.20 – 18.20	P
(neutral)	17.69	17.70	17.79		P
P (line)	1.81	1.78	1.80	1.35 – 1.85	P

BS 1363-1:2016+A1:2018					
Clause	Requirement Test		Result – Remark		Verdict
(neutral)	1.81	1.78	1.80		P
(earth)	1.80	1.81	1.82		P
Q (line) (metal)	3.96	3.95	3.98	3.90 – 4.05	P
(neutral) (metal)	3.96	3.95	3.98		P
(earth) (metal)	3.91	3.92	3.93		P
R (line)	1.94	1.90	1.96	1.2 – 2.0	P
(neutral)	1.94	1.90	1.96		P
(earth)	1.95	1.92	1.93		P
S (line/ neutral)	1.81	1.78	1.80	1.35 – 1.85	P
θ1	59°	60°	61°	58° – 62°	P
θ2 (line/ neutral)	71° / 70°	69° / 69°	70° / 69°	60° – 80°	P
(earth)	69°	70°	70°		P
θ3	60°	59°	61°	58° – 62°	P
1) The outline of the plug is different from shown in figure, but it can insert the gauge fully with a force less than 10 N. So the dimension C is not applicable for the case.					

For solid insulated shutter opening device

<u>Linear Dimensions (mm)</u>	<u>Measurement (sample A)</u>	<u>Measurement (sample B)</u>	<u>Measurement (sample C)</u>	<u>Limit</u>	<u>Verdict</u>
T	7.98	8.00	7.96	7.75 – 8.05	P
U	3.91	3.92	3.93	3.90 – 4.05	P
V (E → L)	0.11	0.13	0.12	0.15 max.	P
(E → N)	0.12	0.12	0.12	0.15 max.	P
W (E → Top)	0.12	0.13	0.11	0.15 max.	P
(E → L&N)	0.11	0.12	0.11	0.15 max.	P

BS 1363-1:2016+A1:2018

Clause	Requirement Test	Result – Remark	Verdict
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For model FJ-SW726GxxxxxyyyB

12	Construction of Plugs		P
12.1	The disposition of the pins shall be shown as figure 4.	The dispositions of the pins were shown as specified.	P
12.2	Pin and sleeve dimensions, body outline were checked according to figure 4 of BS1363: part 1.	The outline of the plug did not exceed the specified dimensions at a distance of 8.34mm from the engagement surface. (limit: >6.35mm) The measured dimensions of item shown in fig. 4 were found within the specified limits.	P
	The plug portion should enter the gauge fully with a force less than 10N was applied to the centre of the sample at right angle.	Sample was entered into the gauge completely.	P
12.3	No part of a line or neutral pin shall be less than 9,5mm from the periphery of the plug measured along the engagement surface.	Complied. 9.7mm measured from live or neutral to periphery of the plug.	P
12.9	Plug pins were constructed of brass	Complied.	P
12.9.1	Exposed surface of plug pins were smooth and free from burrs or sharp edges and other irregularities, which could cause damage or excessive wear to sockets or shutters.	Complied.	P
12.9.4	The adaptor plug pins were tested as specified in the standard.	Complied. After being subjected to a force of 1100N for L, N pin, 400N for ISOD pin, the pin portion could fit the relevant gauge.	P
12.9.6	Each pin of the adaptor was subjected to a torque of 1Nm for 60s as specified in the standard.	Complied. After the test, the pin portion could fit the relevant gauge.	P
12.11	The adaptors were tested as specified in the standard. After being placed in an oven at 70°C for 1 hour, each pin of the samples was subjected for 60 sec. to a pull of 100N in the oven.	Complied. After the above test, no plug pin was detached and the plug pins could fit the relevant gauge.	P
12.12	The degree of flexibility of mounting of the plug pins was checked according to 12.12.1	Measured value: Max. 30' (test on each sources of enclosure, max. value measured) (limit: Max. 3° 30').	P
12.16	Line and neutral plug pin shall be fitted with insulating sleeves. The dimensions of the pin and sleeve shall fall within the specific limit.	Complied. Both line and neutral pins were fitted with insulating sleeves.	P
12.17.1	Plug pin sleeve shall be compliance with 12.17.2 to 12.17.4	Complied.	P
12.17.2	Electric strength test applied between the metal part of plug pin and the sleeve (1250±30V)	Complied. No breakdown or flashover occurs.	P

BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict
12.17.3	Abrasion test for plug pin sleeve The plug pin sleeves were subjected to 20000 movements of abrasion as specified in the standard.	Complied. After the test, the sleeves showed no damage that impaired further use and could satisfy the electric strength test in 12.17. 2	P
12.17.4	The plug pins with sleeves were placed in a heating cabinet at 200°C and tested according to the standard for 120min. Arrange the test as Figure 10 of BS 1363-1.	After the test, the thickness of sleeves of plug pins (Line and neutral pins) remaining at the impression point reduced by max. 21.7% less than 50%. Before test: 0.60mm After test: 0.47mm	P
22.2	Parts of insulating material shall be sufficiently resistant to heat and still shaving its location and function.	Complied. See 22.2.1	P
22.2.1	Compliance checked as follows: a) Parts of ceramic material are used; b) external parts of plugs tested according to 22.1.3; c) all other parts of insulating material including ISOD subjected to the ball pressure at a temperature of 75°C ± 5°C	See appended table 22.2.1	P
23	Resistance to abnormal heat, fire and tracking		P
23.1	Plugs shall be proof against abnormal heat, fire and tracking		P
23.1.1	Compliance shall be checked by the test described in 23.2		P
23.2	Glow-wire test The test is performed according to BS EN 60695-2-11:2014 and at the test temperature given in Table 10 e) Parts necessary to retain live parts in position including ISOD were tested at 750°C. f) Parts not necessary to retain live in position were tested at 650°C.	See appended table 23.2	P
Additional requirement for the solid insulated shutter opening device (ISOD) according to BS1363-1			
12.2	Plug fitted with an ISOD shall comply with all the dimensions specified in Fig. 4a with exception of the width of the ISOD, which should be 4,05mm max. and 3,90mm min. and its height which should be 8,05mm max. and 7,75mm min.	See measured dimensions in Table 3	P
12.9.4	Solid insulated opening device were tested as specified in the standard.	After being subjected to a forced of 400N, the pin could fit the relevant gauge.	P

BS 1363-1:2016+A1:2018

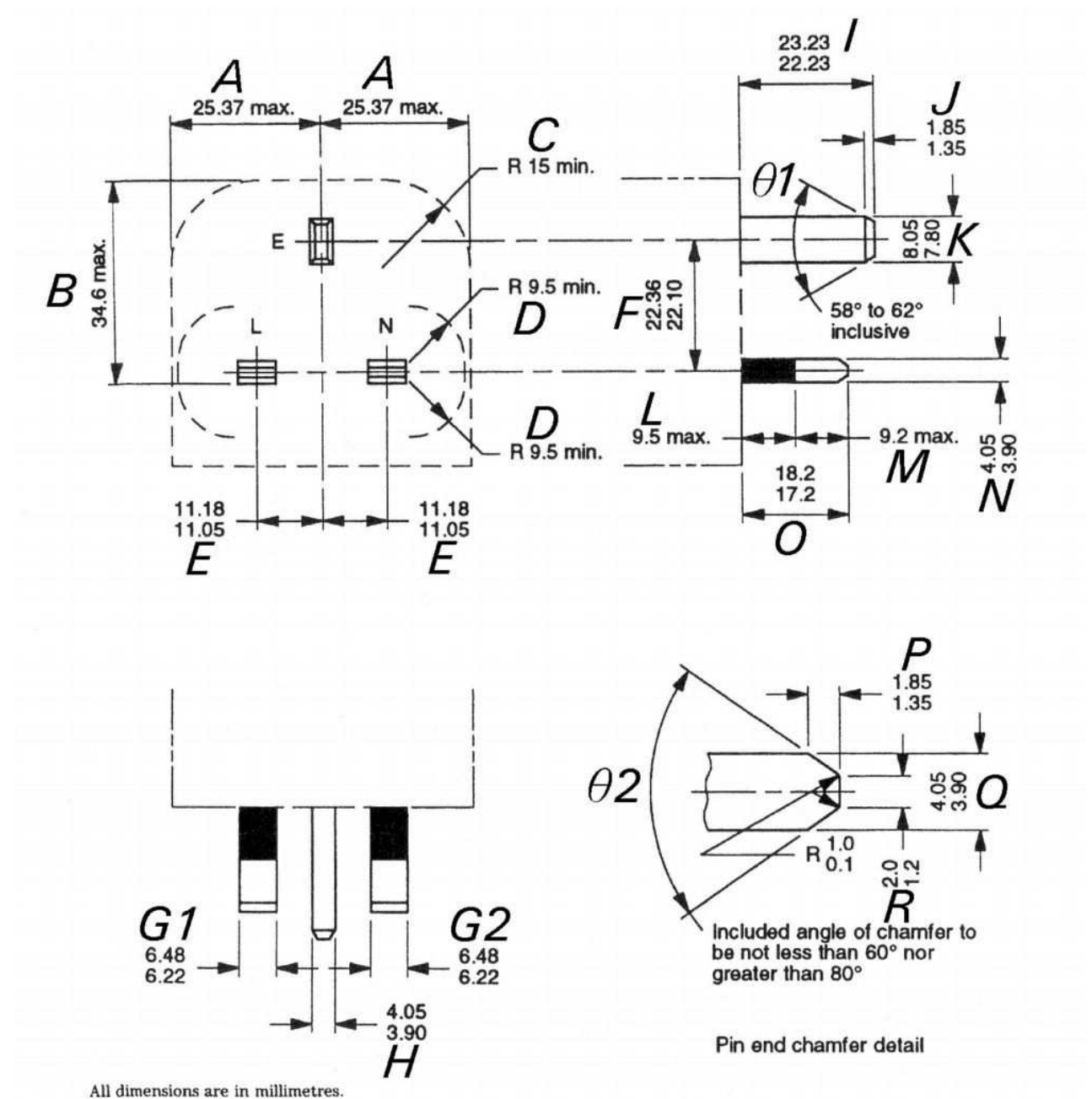
Clause	Requirement Test	Result – Remark	Verdict
12.9.5	Plugs with ISOD shall not cause excessive wear to socket contacts or shutters of sockets-outlets The test use a separate sample of plug with ISOD for each type of socket-outlet, with each sample being inserted into and withdrawn from the socket-outlet at a rate of 6 insertions and 6 withdrawals per minute, the speed of travel of the plug being approximately 150mm/s	After 5000 insertions and withdrawals completed, socket outlets show no damage that would impair further use. Plugs show no damage and suit for the dimensional requirements according to clause 12.2. The shutters of the socket-outlets operate satisfactorily and socket contacts safety shielded.	P
12.9.6	ISOD of the adapter was subjected to a torque of 1Nm for 60s as specified in the standard.	After the test, the pin portion could fit the relevant gauge.	P

22.2.1	TABLE: Ball-pressure test						
Specimen				Ball-pressure test			
Part	Material	Material-thickness [mm]	Colour	[C°]	Measured [mm]	Required [mm]	Result
Plug portion (including ISOD)	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	125	1.3	< 2.0	Pass
Supplementary information:							

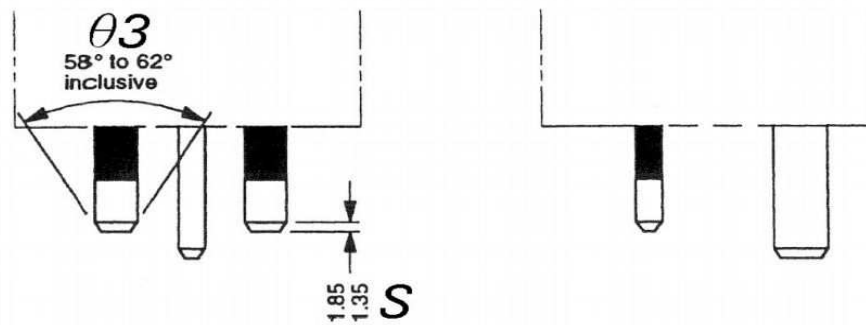
BS 1363-1:2016+A1:2018									
Clause	Requirement Test				Result – Remark			Verdict	
23.2	TABLE: Glow-wire-test [60 s]								
Specimen				Flame					
Part	Material	Material-thickness [mm]	Colour	[°C]	Start [s]	End [s]	Height [mm]	Ignition of tissue paper	Result
Enclosure	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	650	--	--	--	No	Pass
Enclosure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD / PC2330	--	--	650	--	--	--	No	Pass
Enclosure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD / PC2370(a1)(f1)	--	--	650	--	--	--	No	Pass
Plug portion (including ISOD)	SABIC INNOVATIVE PLASTICS US L L C / 940(f1)	--	--	750	--	--	--	No	Pass
Supplementary information:									

BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict

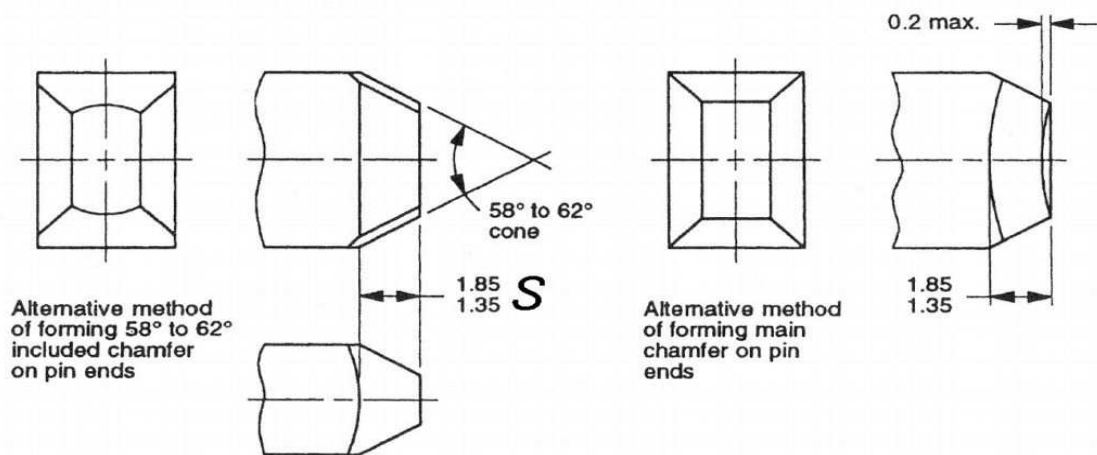
Interchangeable UK plug portion for switching power adapter



BS 1363-1:2016+A1:2018			
Clause	Requirement Test	Result – Remark	Verdict



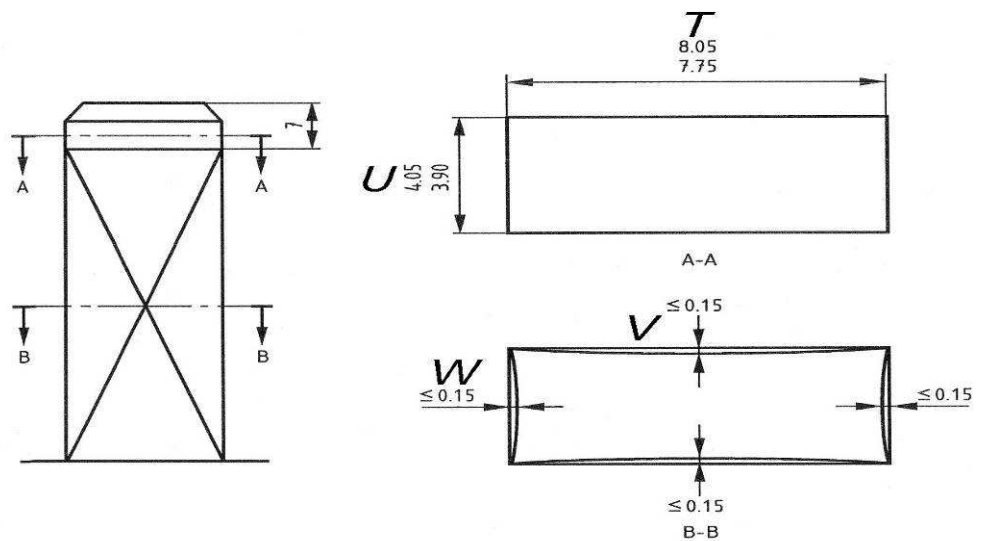
Permitted additional chamfers on L and N pins
(if additional chamfer is used it has to be on both pins)



All dimensions are in millimetres.

NOTE 1. External edges of pins are to be free from burrs or sharp edges and may have a radius not exceeding 1 mm.

NOTE 2. The surfaces of pins are to be flat within the specified tolerances.



Solid insulated shutter opening device (ISOD)

NOTE Section A-A to be measured away from chamfer as shown.

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Clause	Requirement Test	Result – Remark	Verdict

Appendix 1 (Refer to 12.2)

13A Plug Portion Dimensions

<u>Linear Dimensions (mm)</u>	<u>Measurement (sample A)</u>	<u>Measurement (sample B)</u>	<u>Measurement (sample C)</u>	<u>Limit</u>	<u>Verdict</u>
A	24.25	24.30	24.40	25.37 max.	P
B	33.53	33.60	33.29	34.6 max.	P
C	1)	1)	1)	15 min.	P
D	9.70	9.72	9.80	9.5 min.	P
E (from L to E)	11.11	11.10	11.09	11.05 - 11.18	P
(from N to E)	11.11	11.10	11.09		P
F	22.21	22.20	22.18	22.10 - 22.36	P
G1	6.25	6.30	6.28	6.22 – 6.48	P
G2	6.25	6.30	6.28	6.22 – 6.48	P
H	3.98	3.97	4.00	3.90 – 4.05	P
I	22.73	22.70	22.71	22.23 – 23.23	P
J	1.65	1.60	1.63	1.35 – 1.85	P
K	7.95	7.98	7.96	7.80 - 8.05 (7.75 - 8.05 For ISOD)	P
L (line)	9.33	9.36	9.35	9.5 max.	P
(neutral)	9.33	9.36	9.35		P
M (line)	8.53	8.55	8.58	9.2 max.	P
(neutral)	8.53	8.55	8.58		P
N (line) (sleeve)	3.98	3.95	3.96	3.90 – 4.05	P
(neutral) (sleeve)	3.98	3.95	3.96		P
O (line)	17.86	17.91	17.93	17.20 – 18.20	P
(neutral)	17.86	17.91	17.93		P
P (line)	1.49	1.47	1.48	1.35 – 1.85	P

BS 1363-1:2016+A1:2018					
Clause	Requirement Test		Result – Remark		Verdict
(neutral)	1.49	1.47	1.48		P
(earth)	1.83	1.81	1.82		P
Q (line) (metal)	3.96	3.94	3.99	3.90 – 4.05	P
(neutral) (metal)	3.96	3.94	3.99		P
(earth) (metal)	3.98	3.99	4.00		P
R (line)	1.81	1.83	1.85	1.2 – 2.0	P
(neutral)	1.81	1.83	1.85		P
(earth)	1.67	1.65	1.68		P
S (line/ neutral)	1.49	1.50	1.51	1.35 – 1.85	P
θ1	59°	62°	60°	58° – 62°	P
θ2 (line/ neutral)	70° / 70°	69° / 72°	71° / 69°	60° – 80°	P
(earth)	69°	70°	71°		P
θ3	59°	61°	60°	58° – 62°	P
1) The outline of the plug is different from shown in figure, but it can insert the gauge fully with a force less than 10 N. So the dimension C is not applicable for the case.					

For solid insulated shutter opening device

<u>Linear Dimensions (mm)</u>	<u>Measurement (sample A)</u>	<u>Measurement (sample B)</u>	<u>Measurement (sample C)</u>	<u>Limit</u>	<u>Verdict</u>
T	7.95	7.98	7.96	7.75 – 8.05	P
U	3.98	3.99	4.00	3.90 – 4.05	P
V (E → L)	0.12	0.12	0.13	0.15 max.	P
(E → N)	0.12	0.12	0.12	0.15 max.	P
W (E → Top)	0.11	0.13	0.11	0.15 max.	P
(E → L&N)	0.11	0.13	0.11	0.15 max.	P

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB



Figure 1. Overall view of unit FJ-SW126GxxxxyyyB



Figure 2. Overall view of unit FJ-SW126GxxxxyyyB

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

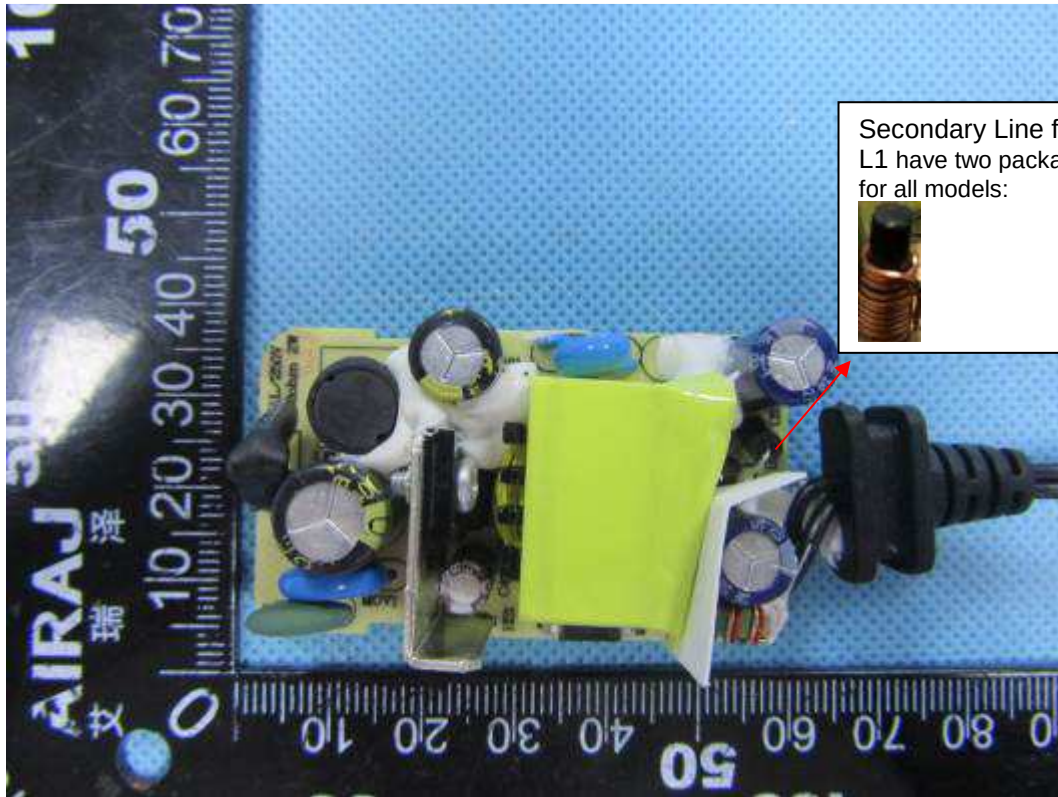


Figure 3. PCB top view of unit FJ-SW126Gxxxxyyyn with L2



Figure 4. PCB bottom view of unit FJ-SW126Gxxxxyyyn

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

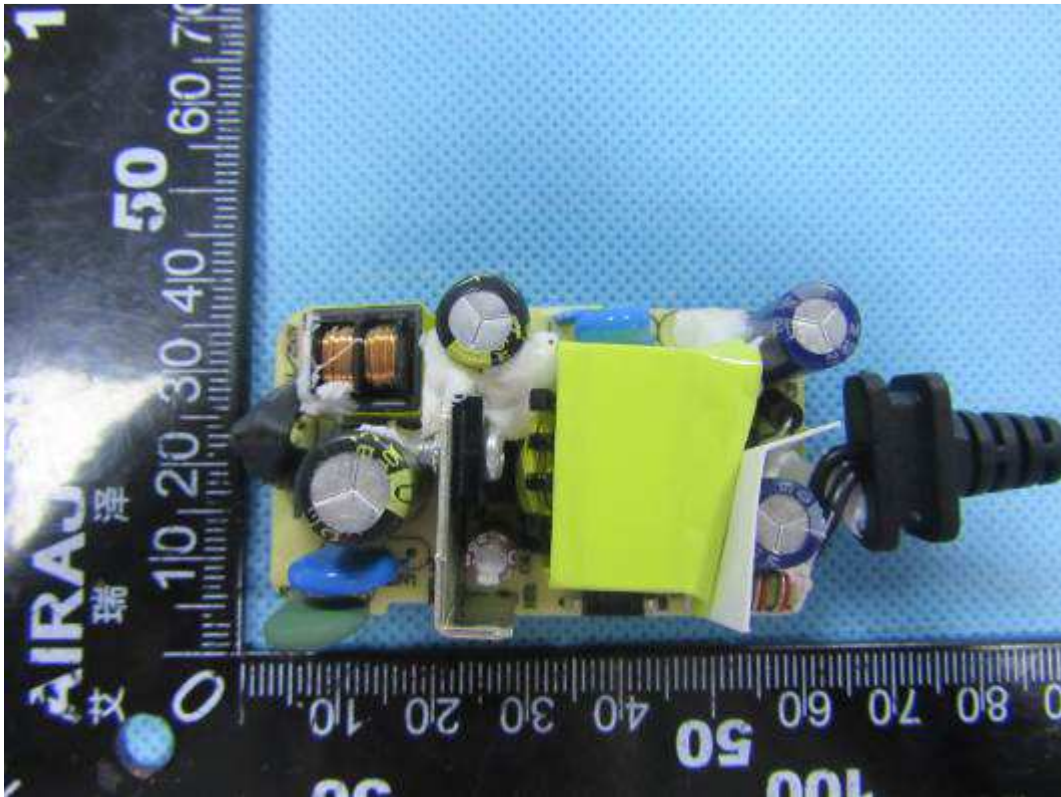


Figure 5. PCB bottom view of unit FJ-SW126Gxxxxyyyn with LF1



Figure 6. Overall view of unit FJ-SW126GxxxxyyN (with UK plug)

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB



Figure 7. Overall view of unit FJ-SW126GxxxxyyyN (with UK plug)



Figure 8. Overall view of unit FJ-SW726GxxxxyyyB

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB



Figure 9. Overall view of unit FJ-SW726GxxxxyyyB



Figure 10. Overall view of unit FJ-SW726GxxxxyyyB

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

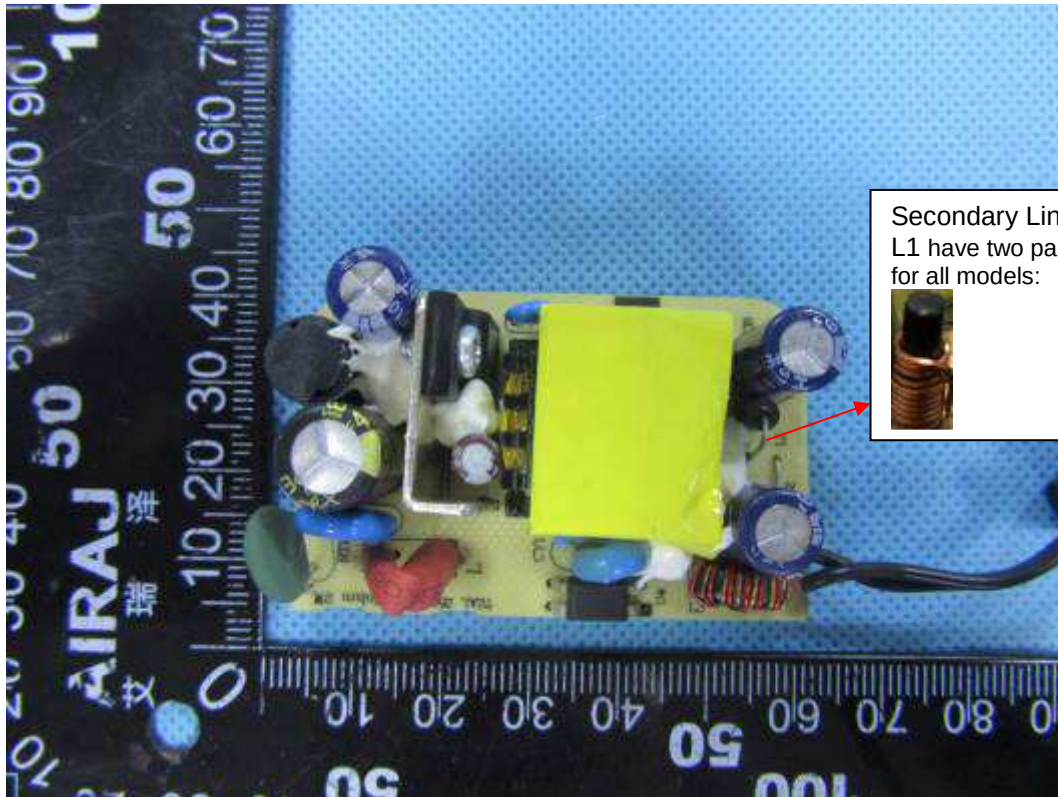


Figure 11. PCB top view of FJ-SW726GxxxxyyyB

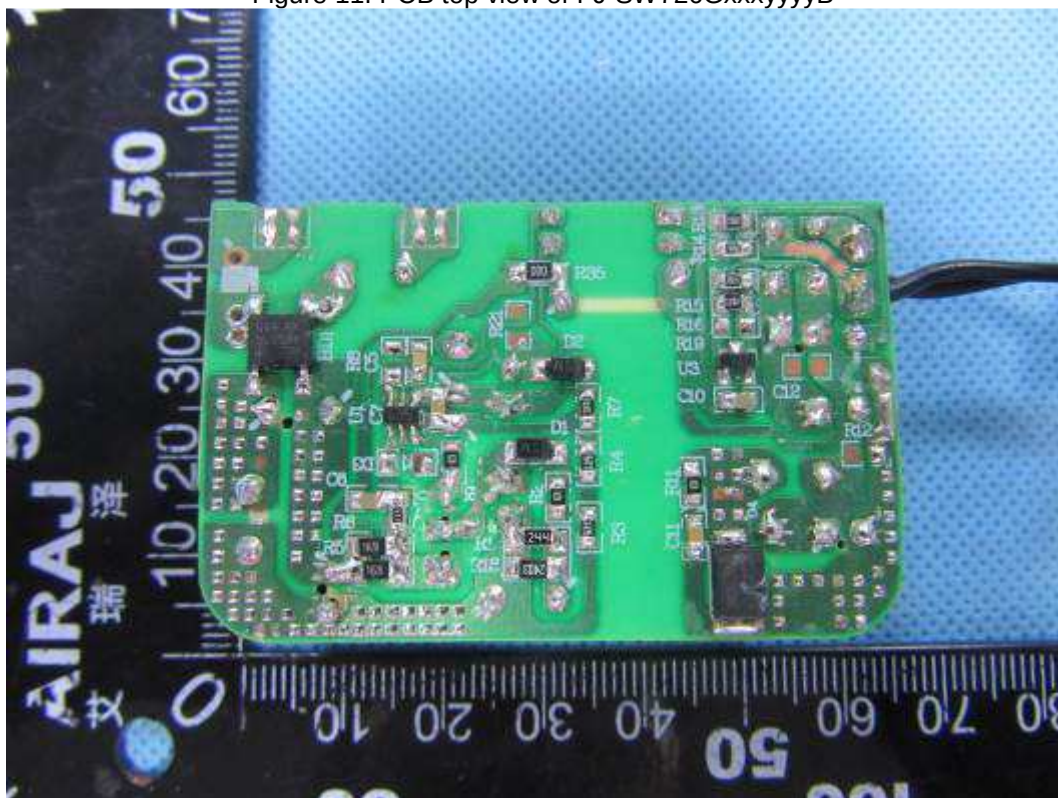


Figure 12. PCB Bottom view of FJ-SW726GxxxxyyyB

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

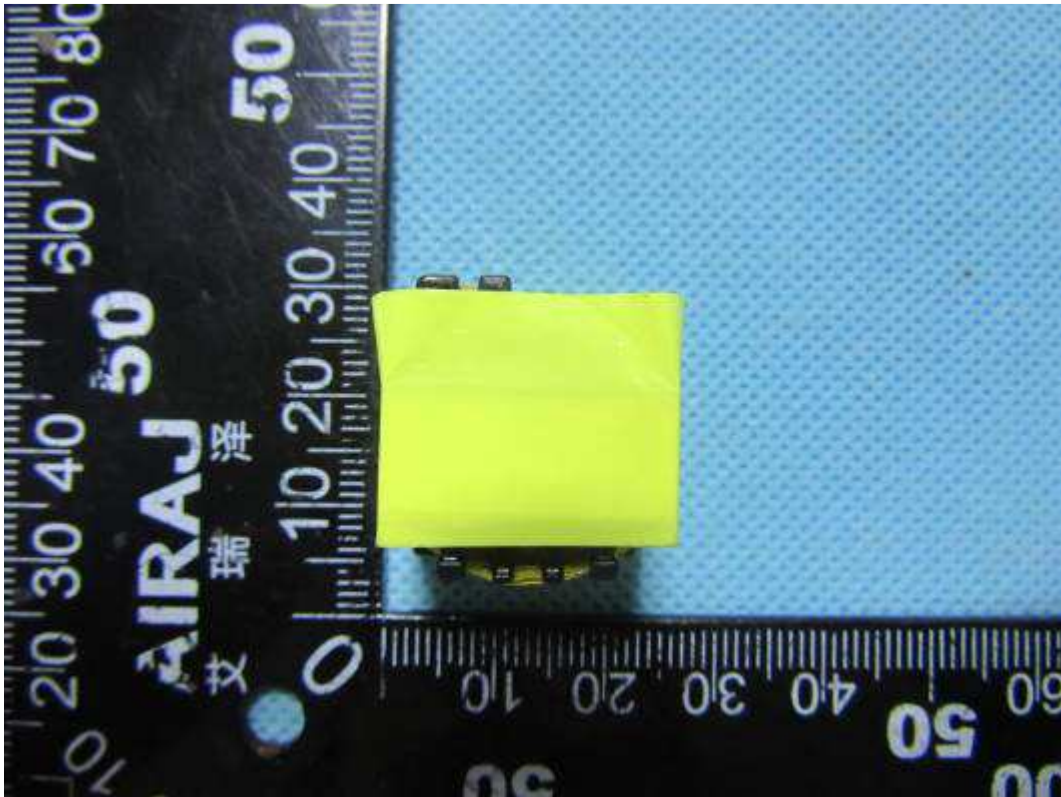


Figure 13. Overall view of transformer

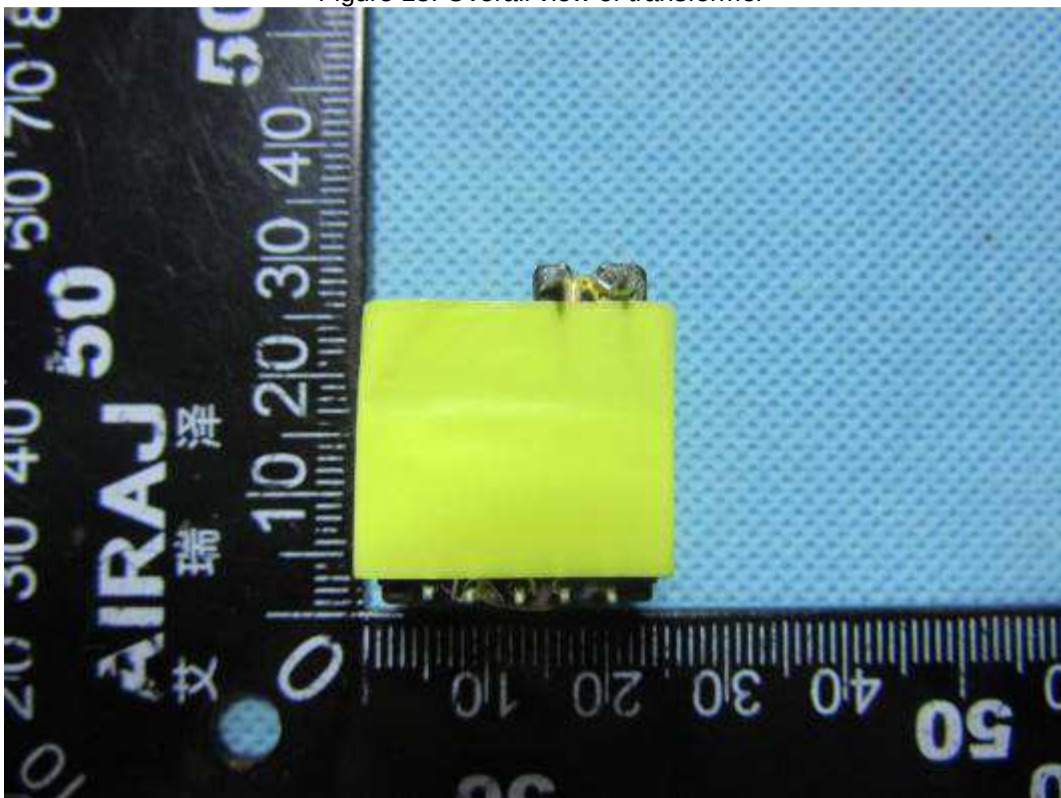


Figure 14. Overall view of transformer

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

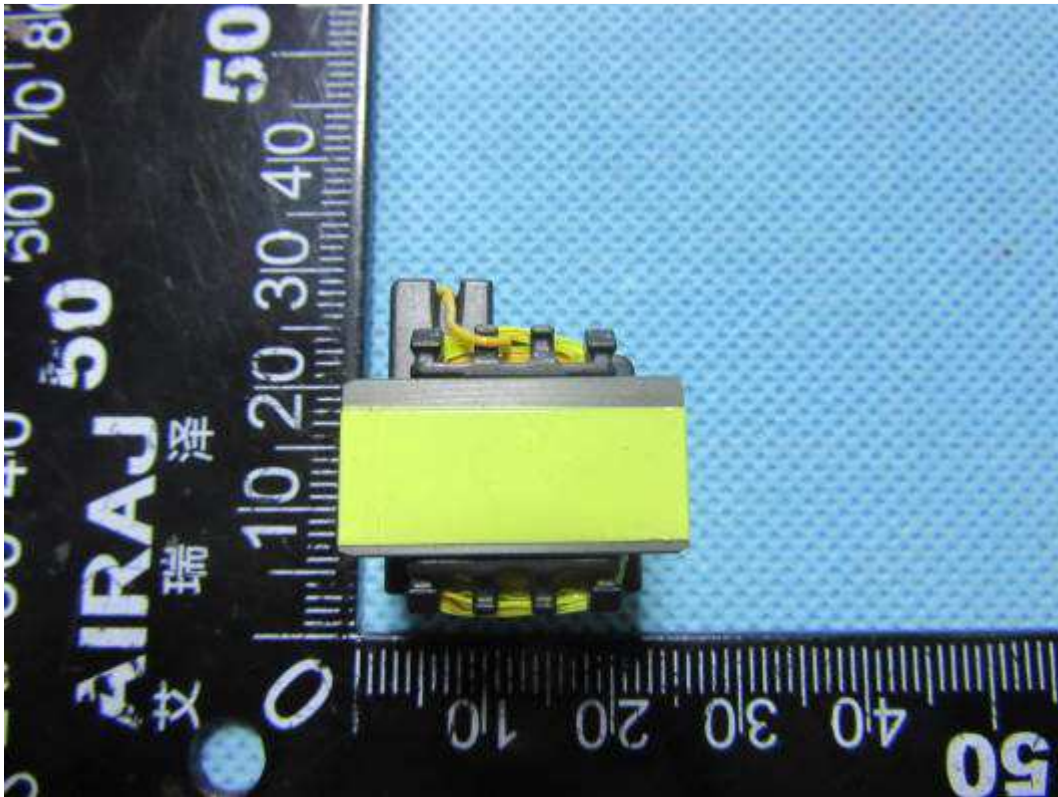


Figure 15. Detail view of transformer

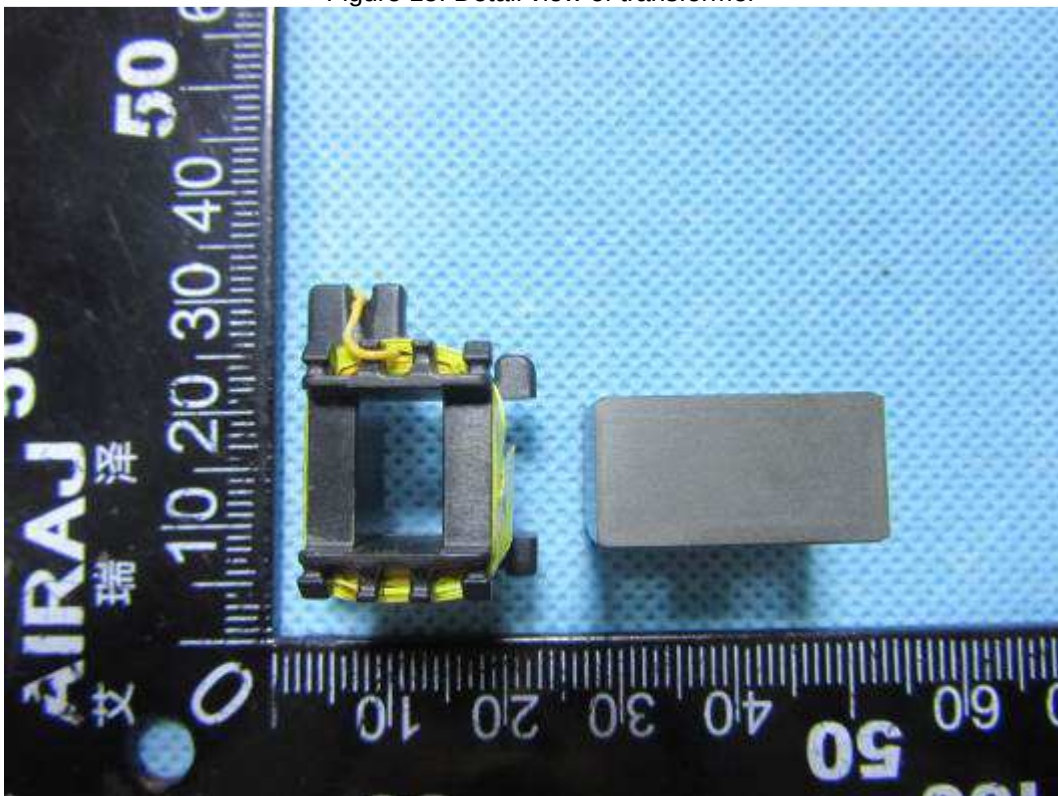


Figure 16. Detail view of transformer

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

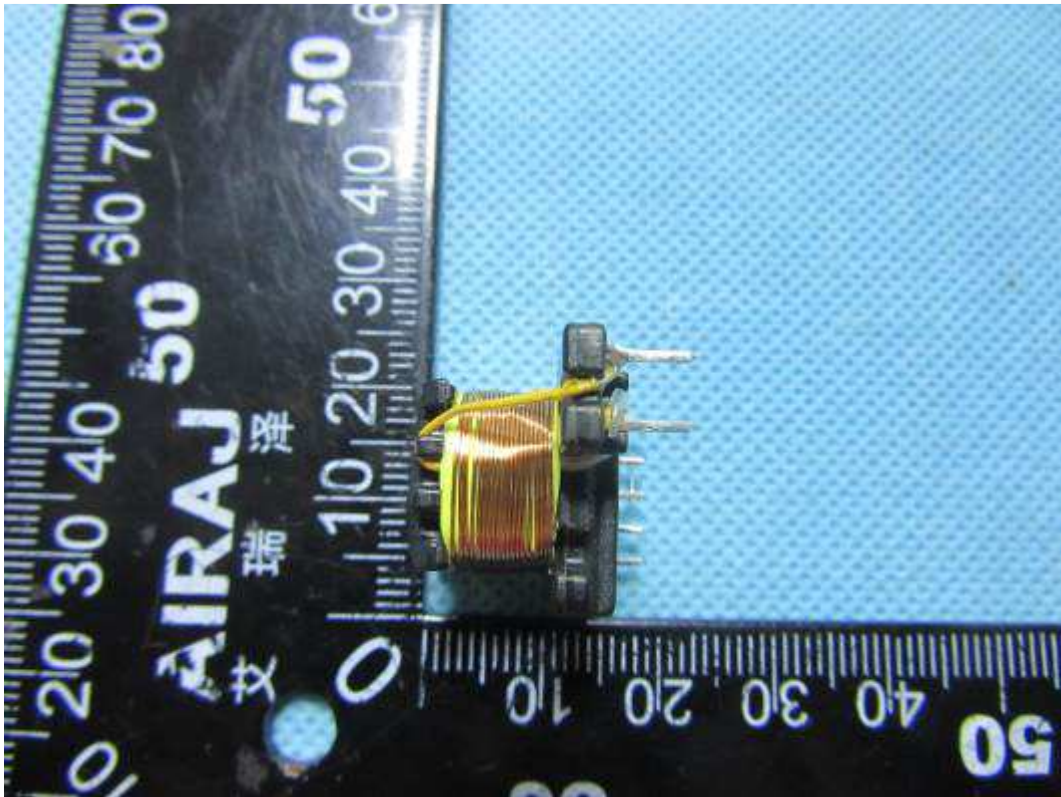


Figure 17. Detail view of transformer

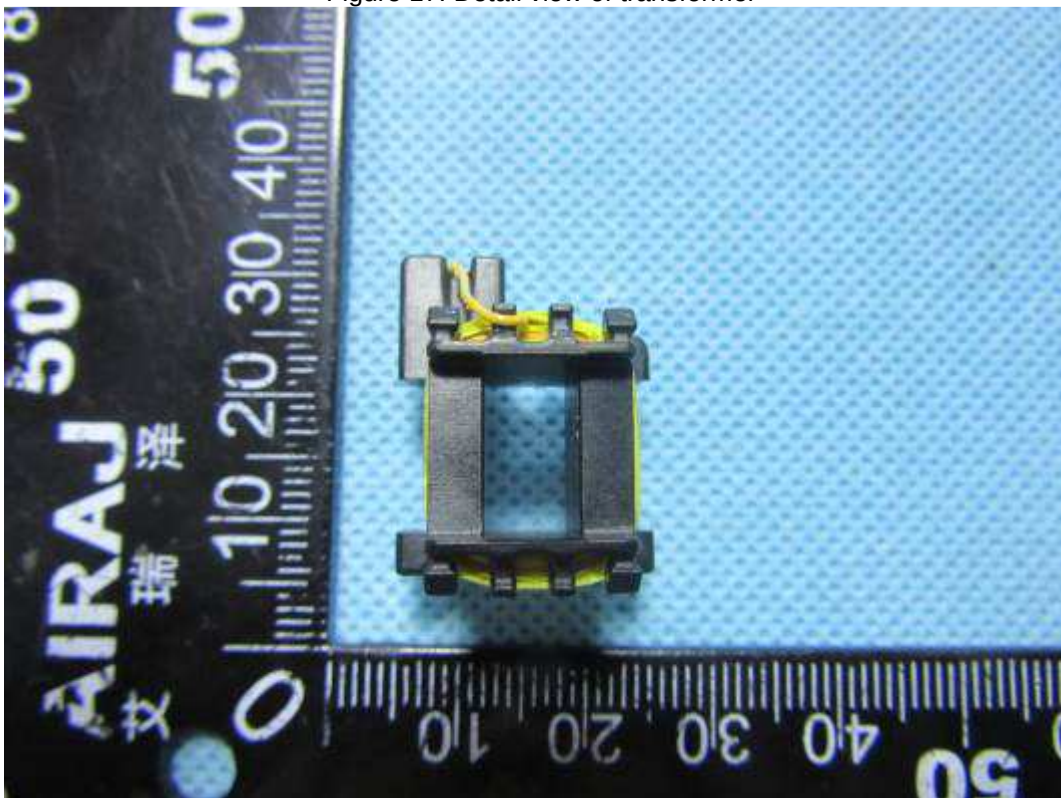


Figure 18. Detail view of transformer

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

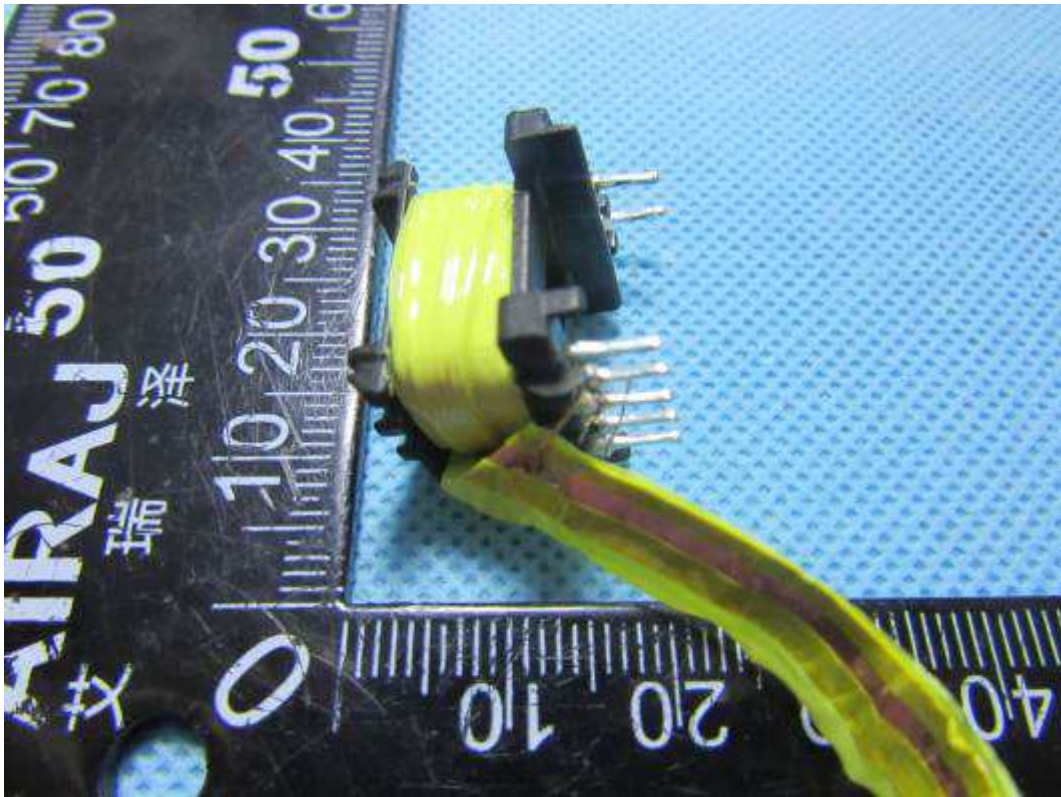


Figure 19. Detail view of transformer

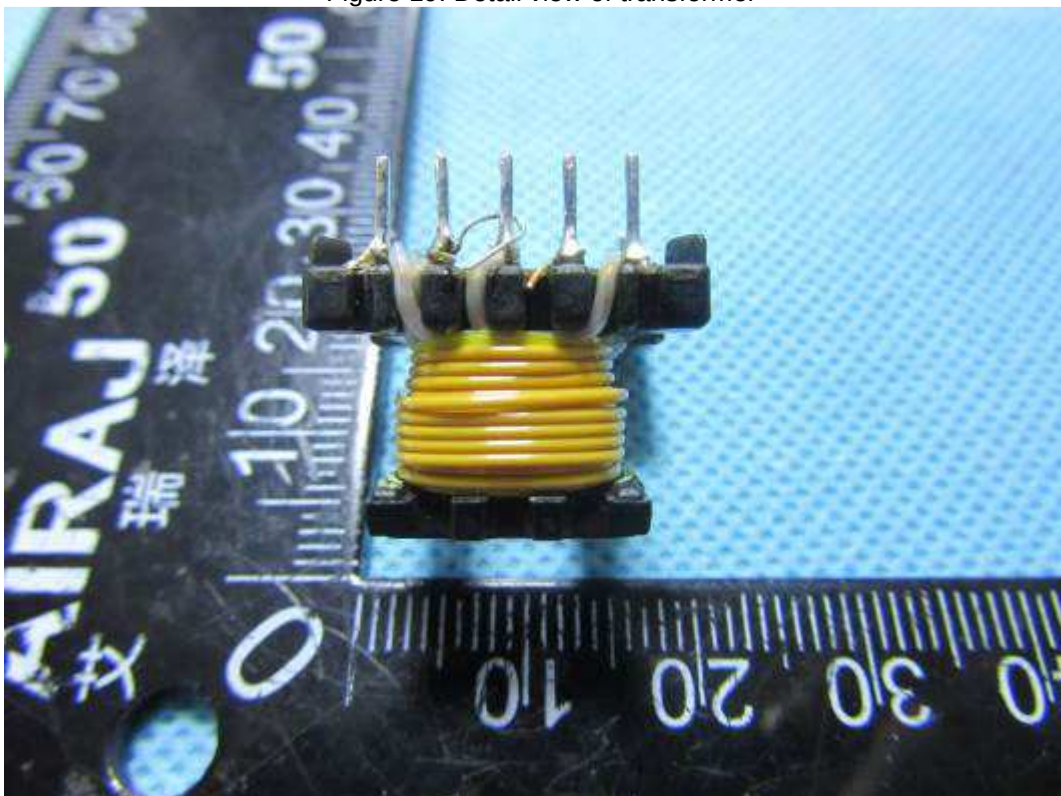


Figure 20. Detail view of transformer

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB



Figure 21. Detail view of transformer



Figure 22. Detail view of transformer

Product: SWITCHING ADAPTOR

Type Designation: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

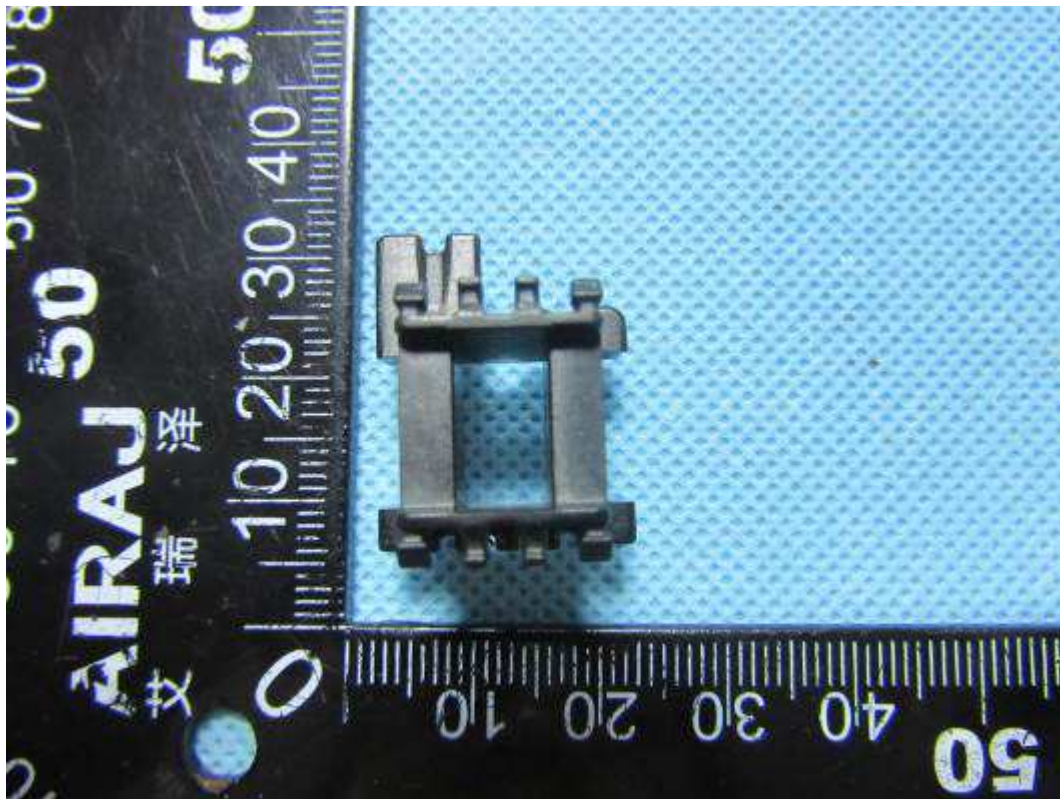


Figure 23. Detail view of transformer

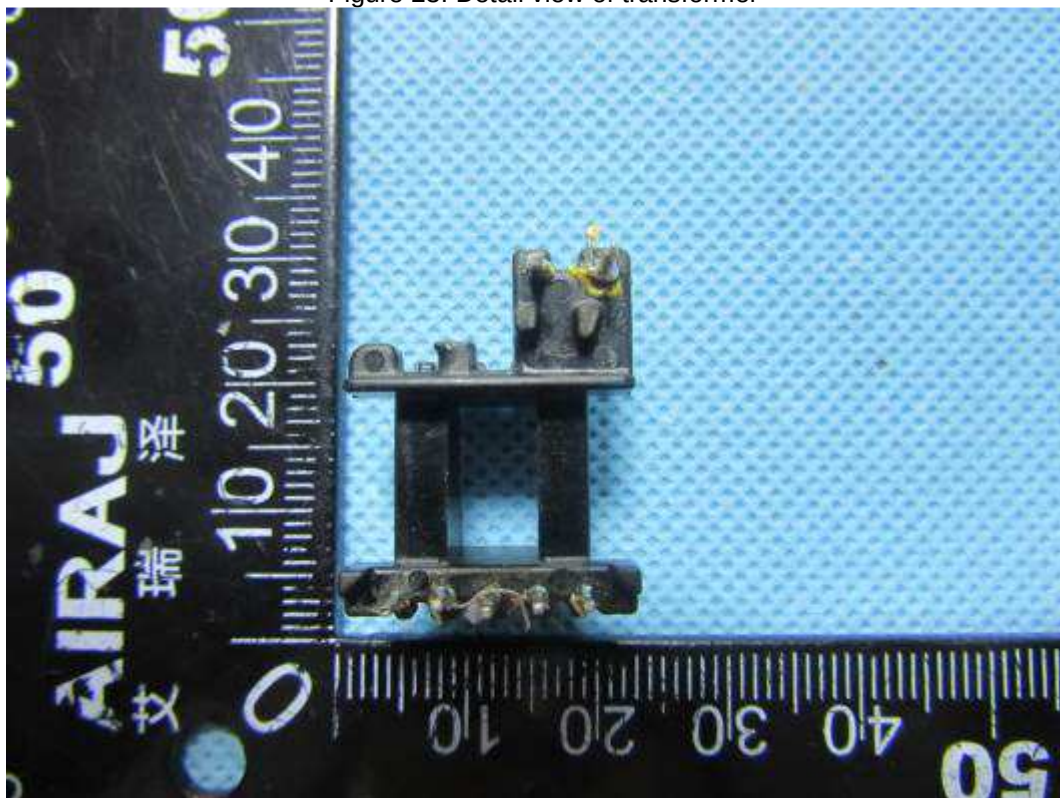


Figure 24. Detail view of transformer

Attachment 3 to report No. CN213XBV 001

EMF Assessment

Applicant: Shenzhen Fujia Appliance Co., Ltd.

Product name: SWITCHING ADAPTOR

Model name: FJ-SW126Gxxxxyyyn, FJ-SW726GxxxxyyyB

The equipment is a SWITCHING ADAPTOR 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: 2021-06-28