




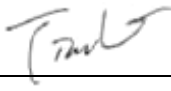
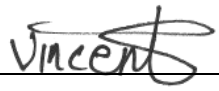


Test Report issued under the responsibility of:



<b>TEST REPORT</b>	
<b>Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens</b>	
<b>Report Number</b> ..... :	GZES201103088503A2
<b>Date of issue</b> ..... :	2021-02-05, Amendment No.2: 2022-03-16
<b>Total number of pages</b> .....	49
<b>Name of Testing Laboratory preparing the Report</b> .....	SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch
<b>Applicant's name</b> .....	Guangdong Galanz Enterprises Co., Ltd.
<b>Address</b> ..... :	25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China
<b>Test specification:</b>	
<b>Standard</b> .....	IEC 60335-2-25:2020 for use in conjunction with IEC 60335-1:2010, COR1:2010, COR2:2010, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016
<b>Test procedure</b> .....	CB Scheme
<b>Non-standard test method</b> .....	N/A
<b>Test Report Form No.</b> .....	IEC60335_2_25L
<b>Test Report Form(s) Originator</b> .... :	LCIE
<b>Master TRF</b> .....	Dated 2020-06-03
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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.	
<b>This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.</b>	
<b>General disclaimer:</b>	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	









<b>Test item description</b> ..... :	Microwave Oven
<b>Trade Mark(s)</b> .....	<b>Galanz</b> ,  <b>SANSUI</b> ,  <b>BLAUPUNKT</b> ,  <b>brabantia</b> , <b>DAEWOO</b> , AIM
<b>Manufacturer</b> .....	Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd. 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China
<b>Model/Type reference</b> .....	P70T20(x)(y) (x) = L, SL, TL, P, SP, TP, AL, ASL, ATL, AP, ASP, ATP, EL, ESL, ETL (y) = -V1, -V2, -V3, -V4, -V5, -V6, -V7, -V8, -VB, -VC, -VD, -VE, -VL, -VM, -VMA, -VK, -VJ, -CF BBEK1144, SMO 2000, SMO 2002, RSH-200000, BBEK*****, SMO *****, RSH-200000-*** (* = 0-9, A-Z or blank) MOC20130SFB
<b>Ratings</b> .....	230 V – 240 V, 230 V; 50 Hz; 1100 W; Class I; Microwave output: 700 W, 2450 MHz

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch
<b>Testing location/ address.....:</b>		Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China
<b>Tested by (name, function, signature).....:</b>		Tim Lee / Project Engineer 
<b>Approved by (name, function, signature)....:</b>		Vincent Chan / Reviewer 
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 1:</b>	N/A
<b>Testing location/ address.....:</b>		
<b>Tested by (name, function, signature).....:</b>		
<b>Approved by (name, function, signature)....:</b>		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 2:</b>	N/A
<b>Testing location/ address.....:</b>		
<b>Tested by (name + signature).....:</b>		
<b>Witnessed by (name, function, signature) .:</b>		
<b>Approved by (name, function, signature)....:</b>		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 3:</b>	N/A
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 4:</b>	N/A
<b>Testing location/ address.....:</b>		
<b>Tested by (name, function, signature).....:</b>		
<b>Witnessed by (name, function, signature) .:</b>		
<b>Approved by (name, function, signature)....:</b>		
<b>Supervised by (name, function, signature) :</b>		

<p><b>List of Attachments (including a total number of pages in each attachment):</b> Attachment 2 including 5 pages of Photo documentation; Attachment 5 including 4 pages of EN 60335-1: 2012 / A15: 2021.</p>	
<p><b>Summary of testing:</b></p>	
<p><b>Tests performed (name of test and test clause):</b> IEC 60335-2-25: 2020 IEC 60335-1: 2010 + A1: 2013 + A2: 2016 Tests of clause 11, 13, 19.101, 19.102, 19.103, 22.11, 22.12 and construction check were done on models P70T20AL-VC and P70T20L-VC. Tests of clause 30 was conducted on alternative lamp holder, plastic control panel, plastic door frame, PCB/PWB material and self-reset thermal cut-out. The submitted samples fulfil the requirements of specified standards.</p>	<p><b>Testing location:</b> SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch Building 1, European Industrial Park, No.1, Shunhe South Road, Wusha, Daliang, Shunde District, Foshan, Guangdong, China</p>
<p><b>Summary of compliance with National Differences (List of countries addressed):</b> EU Group Difference, DE DE=Germany EK decisions according to German ProdSG have been taken into account. PAH risk evaluation according to AfPS GS 2019:01 PAK. <input checked="" type="checkbox"/> <b>The product fulfils the requirements of:</b> EN 60335-2-25: 2012 + A1: 2015 + A2: 2016 EN 60335-1: 2012 + A11: 2014 + A13: 2017 + A1: 2019 + A14: 2019 + A2: 2019 + A15: 2021 EN 62233: 2008</p>	
<p><b>Statement concerning the uncertainty of the measurement systems used for the tests</b> (may be required by the product standard or client)</p> <p><input type="checkbox"/> <b>Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:</b> <b>Procedure number, issue date and title:</b></p> <p>Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.</p> <p><input checked="" type="checkbox"/> <b>Statement not required by the standard used for type testing</b> (Note: When IEC or ISO standard requires a statement concerning the uncertainty of the measurement systems used for tests, this should be reported above. The informative text in parenthesis should be delete in both cases after selecting the applicable option)</p>	

**Copy of marking plate:**

**The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.**

<p>Galanz P70T20L-V1                      MICROWAVE OVEN</p> <p>INPUT: 230V                      1100W ( MICRO ) 50Hz</p> <p>OUTPUT: 700W                      2450MHz</p> <p>   </p> <p>Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd. 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China</p>	<p>Galanz P70T20L-V1                      Mikrowellenherd</p> <p>INPUT: 230V                      1100W (Mikrowellen) 50Hz</p> <p>LEISTUNG: 700W                      2450MHz</p> <p>   </p> <p>Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd. 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China</p>
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**Remark:**

The label for other model was same as above except for model number, rated voltage and trademark.

As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trademark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm.

As declared by the applicant the authorized EEA representative or importer was not decided at the time of application, but will be marked on the products before placing them on the market.

According to ProdSG Art. 6 when placing the products on the market the authorized representative / importer within the European Economic Area (EEA) must be marked on the product if the manufacturer is not located within the EEA. Marking on the packaging is only acceptable if it is not possible to place such markings on the product.

<b>Test item particulars</b> .....:	
<b>Classification of installation and use</b> .....: Portable appliance for household and indoor used	
<b>Supply Connection</b> .....: Non-detachable cord fitted with a plug	
.....:	
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object.....: N/A	
- test object does meet the requirement.....: P (Pass)	
- test object does not meet the requirement.....: F (Fail)	
<b>Testing</b> .....:	
<b>Date of receipt of test item</b> .....: 2022-01-24	
<b>Date (s) of performance of tests</b> .....: 2022-01-24 to 2022-03-15	
<b>General remarks:</b>	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.	
<b>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</b>	
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>	
Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law."	
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. This test report (GZES201103088503A2) is not valid without test report GZES201103088501 and GZES201103088502A1.	
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC60335-2-25:</b>	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....	<input type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the General product information section.</b>	

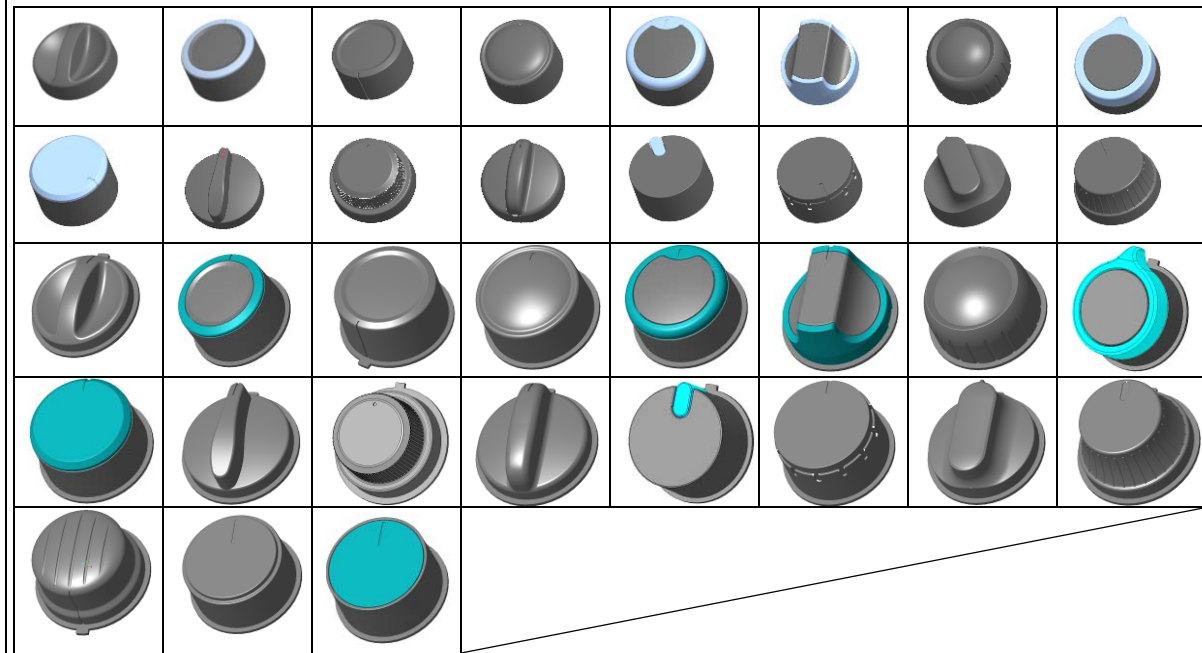
**Name and address of factory (ies)..... :** 1. Guangdong Galanz Microwave Oven and Electrical Appliances Manufacturing Co., Ltd. 25 Ronggui Nan Road, Shunde, Foshan, Guangdong, China  
 2. Guangdong Galanz Microwave Electrical Appliances Manufacturing Co., Ltd. 3 Xingpu Avenue, Huangpu, Zhongshan, Guangdong, China

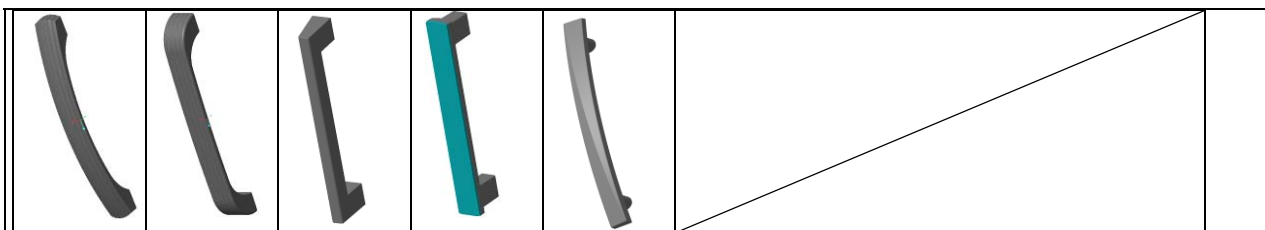
**General product information and other remarks:**

The appliances are intended to household and indoor used.  
 All models are identical except for material of cavity, control type, door type, shape of knob and shape of handle, details refer to following:

Microwave mode only	Microwave output power (W)	Cavity volume: (Litre)	(x)			(y)
			Panel type	Cavity type	Door type	
P	70T: 700 W	20	Blank: Mechanical type; A: Electronic type.	S: Stainless steel; Blank: painted steel; T: Grey painted steel	L: Pull door P: Push door	Type of the appearance

All models can be used below alternative knob and handle, detail as below:





BBEK1144, SMO 2000, SMO 2002, RSH-200000, BBEK\*\*\*\*\*, SMO \*\*\*\*\*, RSH-200000-\*\*\* were same as model P70T20P-V6 except for model name and trademark.

For BBEK\*\*\*\*\*, SMO \*\*\*\*\*, RSH-200000-\*\*\*, \* may be 0-9, A-Z or blank to denote difference for trademark.

For relevant tests, see summary of testing.

#### Amendment No.1:

The original Test Report Ref. of GZES201103088501 dated 2021-02-05 was amended on 2021-08-26 to include following changes and additions, which were considered technical modifications:

1. Add new models P70T20AL-VJ, P70T20ASL-VJ and P70T20ATL-VJ which are same as original electronic model except for door surface, control panel surface and control PCB, details as photo document.

Add new model MOC20130SFB which is same as model P70T20AL-VJ except for model name.

2. Add alternative component as below:

Object/part No.	manufac-turer/trademark	type/model	technical data
Lamp and holder (Integrated lamp)	MLS CO.,LTD	Z187	Holder: 250 V, 2 A LED Lamp:230V,1W
Alt.	MLS CO.,LTD	Z187	Holder: 250 V, 2 A LED Lamp:230V,1,5W
Internal wire	Yutong Electronics (HuiZhou) Co., LTD	1015	16-22AWG, 600V, 105°C
Alt.	Dongguan Evk Electric Technique Co Ltd	1015	16-22AWG, 600V, 105°C
Alt.	HanstarFluoro-Plastic Insulated Electric Wires	1015	16-22AWG, 600V, 105°C
Alt.	Dongguan Sheng Pai Electric Wire & Cable Co Ltd	1015	16-22AWG, 600V, 105°C
Alt.	Foshan Shunde Huakun Electric Co Ltd	1015	16-22AWG, 600V, 105°C
Alt.	Shenzhen Bao Hing Electric Wire & Cable Mfr Co Ltd	1015	16-22AWG, 600V, 105°C
Alt.	Yutong Electronics (HuiZhou) Co., LTD	1569	16-22AWG,300V, 105°C
Alt.	Linoya Electronic Technology Co Ltd	1569	16-22AWG,300V, 105°C
Alt.	HanstarFluoro-Plastic Insulated Electric Wires	1569	16-22AWG,300V, 105°C
Alt.	Dongguan Sheng Pai Electric Wire & Cable Co Ltd	1569	16-22AWG,300V, 105°C
Alt.	Foshan Shunde Huakun Electric Co Ltd	1569	16-22AWG,300V, 105°C
Alt.	Shenzhen Bao Hing Electric Wire & Cable Mfr Co Ltd	1569	16-22AWG,300V, 105°C
Alt.	HanstarFluoro-Plastic	1332	16-22AWG, 300V,

	Insulated Electric Wires		200°C
Alt.	Guangdong Rifeng Electric Cable Co Ltd	1332	16-22AWG, 300V, 200°C
Alt.	Foshan Shunde Huakun Electric Co Ltd	1332	16-22AWG, 300V, 200°C
Alt.	Dongguan Sheng Pai Electric Wire & Cable Co Ltd	1332	16-22AWG, 300V, 200°C
Alt.	HanstarFluoro-Plastic Insulated Electric Wires	3122	16-26AWG, 300V, 200°C
Alt.	Guangdong Rifeng Electric Cable Co Ltd	3122	16-26AWG, 300V, 200°C
Alt.	Dongguan Sheng Pai Electric Wire & Cable Co Ltd	3122	16-26AWG, 300V, 200°C
PCB/PWB material	DONGGUAN WANNIENFU ELECTRONIC CO LTD	04V0 101V0 03V0	UL94V-0
Relay	Ningbo TianboGanglian Electronics Co.,Ltd.	HJR-3FF-S-H	Contact: AC 250 V, 10 A, Coil: DC 24 V, T85, 1E5
Switch mode power supply PCB incorporated in control panel PCB (MEL964-S)			
High frequency transformer	Galanz	GAL-TR006	Pri. winding: N1: Φ0,17mm×37Ts N2: Φ0,17mm×111Ts N3: Φ0,17mm×0,9Ts Sec. winding: N4: Φ0,35mm×6Ts N5: Φ0,40mm×8Ts Class B
Varistor	FenghuaAdv.Tech.(Holding)Co.,Ltd.	FNR-10K471 FNR-14K471	Varistor Voltage: 470V,T85
Alt.	Haohua Electronic Co.,	HVR 10K471, HVR 14K471	Varistor Voltage: 470V,T85
Alt.	Centra Science Corp.	CNR-10D471K CNR-14D471K	Varistor Voltage: 470V,T85
Optocoupler	SHARP CORP ELECTRONIC	PC817	Viso=5000V, T100
Alt.	Lite-On Technology Corporation	LTV-817	Viso=5000V, T110
Alt.	Toshiba Corporation	TLP785	Viso=5000V, T115

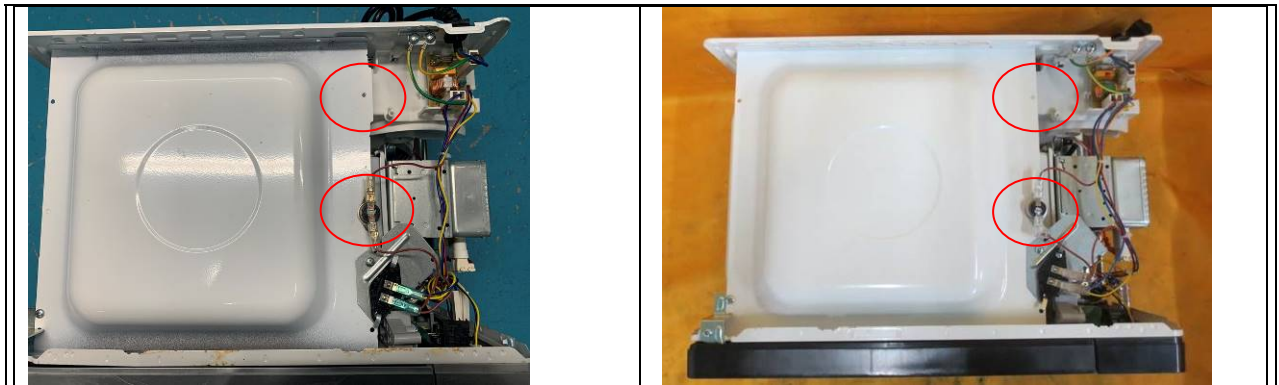
For relevant test, see 'summary of test'.

#### Amendment No.2:

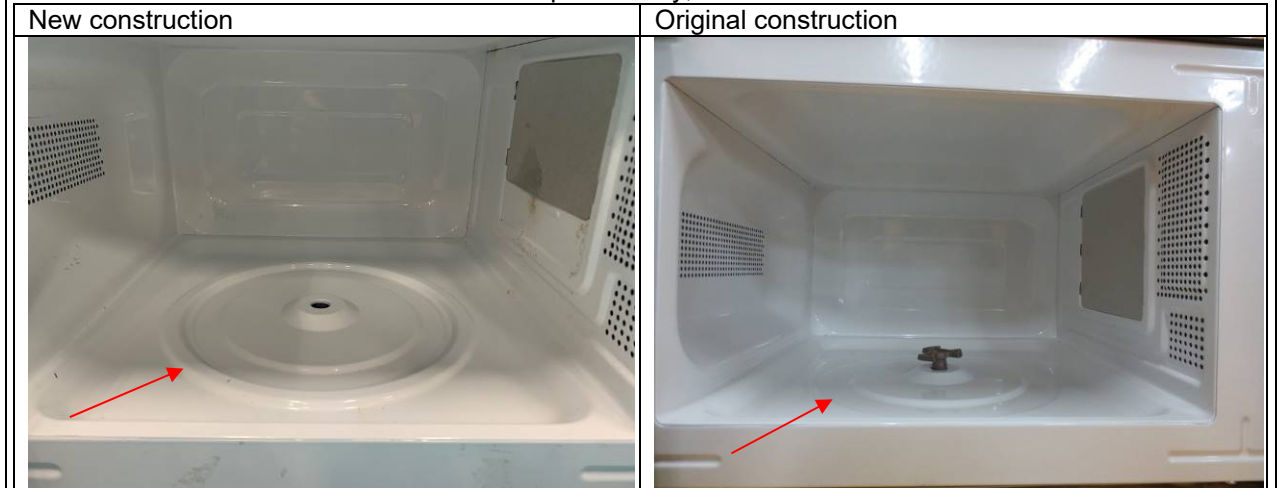
The original Test Report Ref. of GZES201103088501 dated 2021-02-05 was amended on 2022-03-16 to include following changes and additions, which were considered technical modifications:

1. Add alternative construction for position of self-reset thermal cut-out on oven, details as below photo:

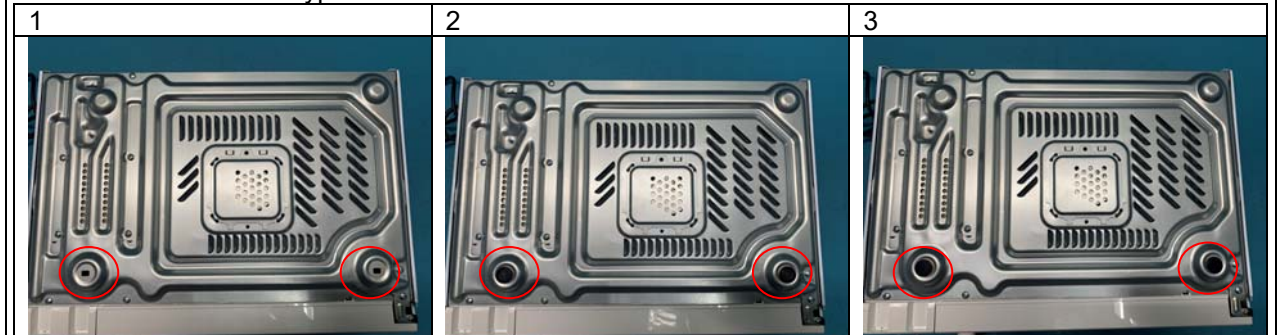
New construction	Original construction
------------------	-----------------------



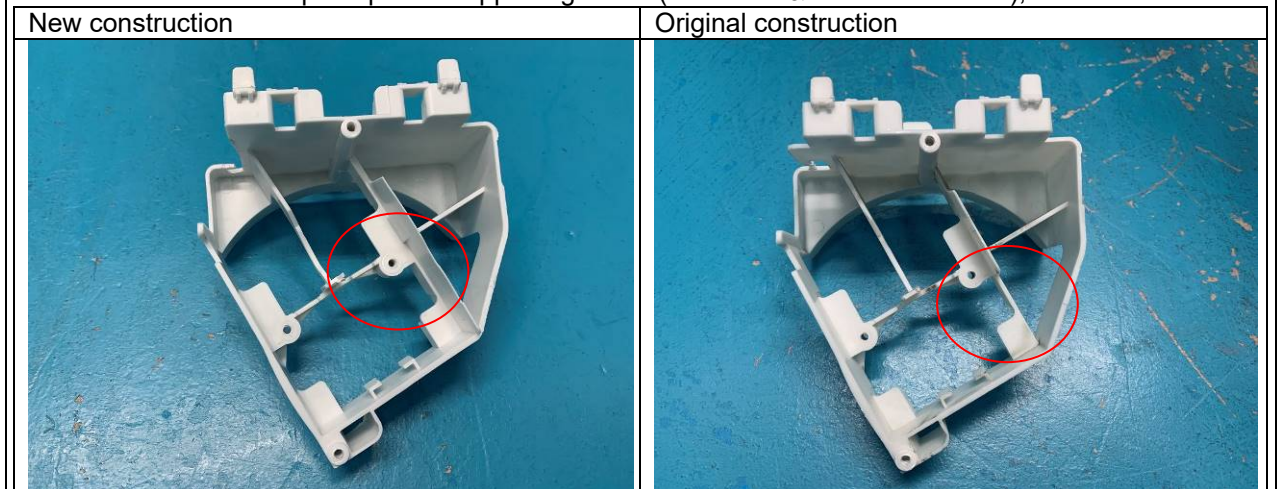
2. Add alternative construction for bottom shape of cavity, detail as below:






















3. Add alternative three type of furnace feet details as below:



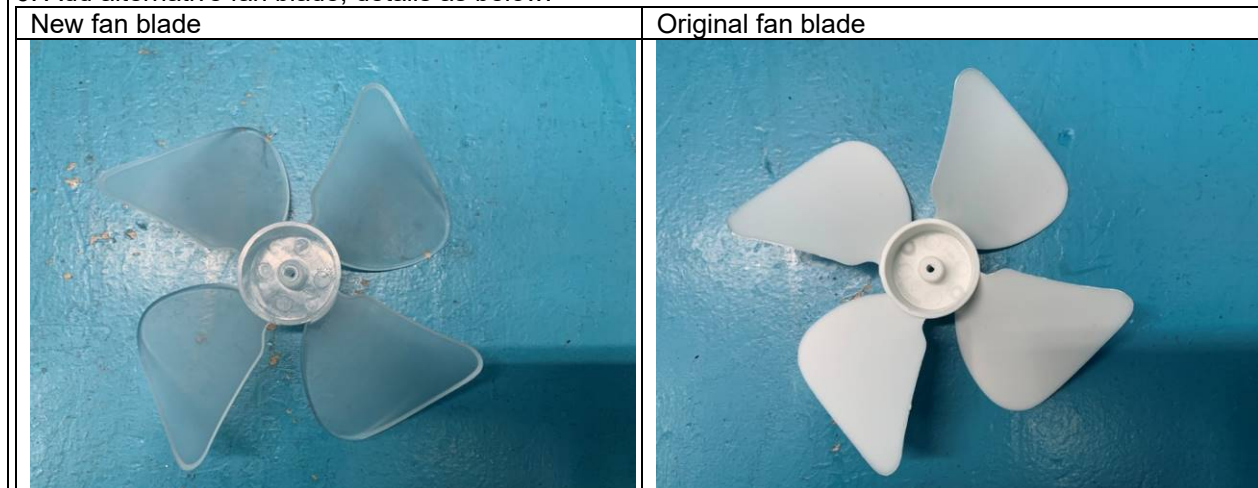
4. Add alternative of shape of plastic supporting frame (fan motor & noise filter board), details as below:



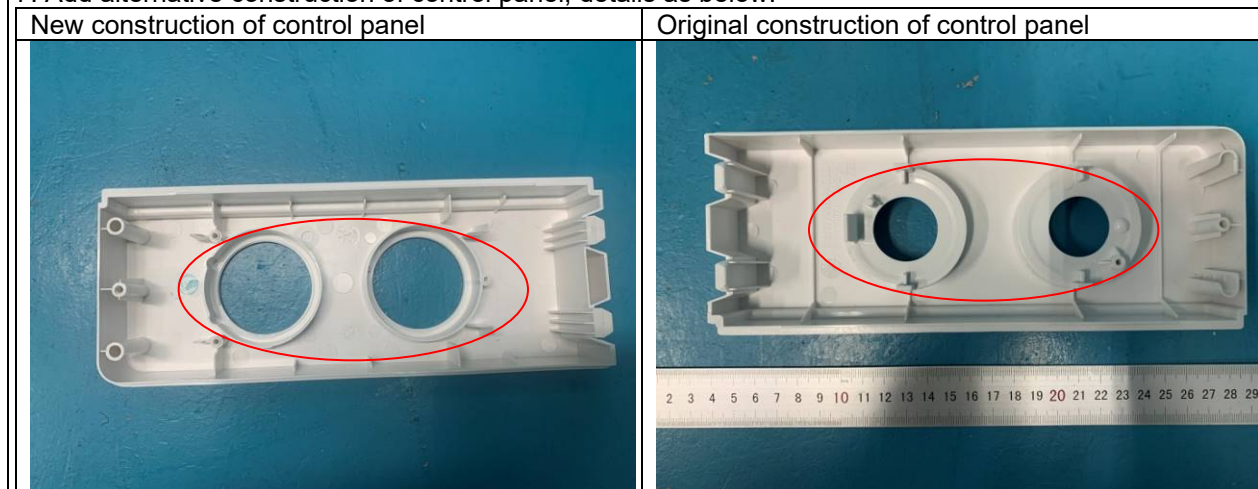
5. Add alternative of knob for mechanical models, details as below:

Optional knobs:							
							
							
							

6. Add alternative fan blade, details as below:



7. Add alternative construction of control panel, details as below:



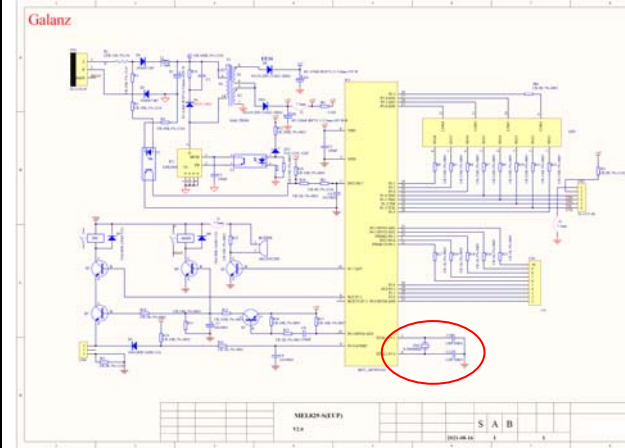
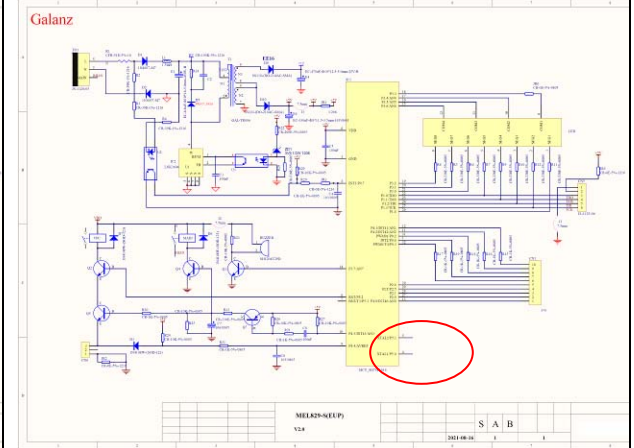
8. Add alternative component as below:

Object/part No.	manufac-turer/trademark	type/model	technical data
Lamp and holder (Integrated lamp)	Dongguan HeYu Lighting Products Co., Ltd.	Z187	Holder: 250 V, 2 A Lamp: 230 V, 20 W
Plastic Control Panel	KINGFA SCI & TECH CO LTD	VSLOY-PM	94V-0
Plastic door cover	KINGFA SCI & TECH CO LTD	VSLOY-PM	94V-0
PCB/PWB material	Mei Zhou Li Yu Da Cricuit Board Co Ltd	LYD-2 LYD-3 LYD-4	UL94V-0
Alt.	HUNG HING	HF-02A	UL94V-0

	ELECTRONICS CO., LTD	HF-07A HF-08 HH-01 HH-02 HH-03 HH-05 HH-06	
Self-reset Thermal cutout on Oven	Guangdong HuilongElectrical Appliance Co.,Ltd.	KSD301	AC 250V 10A OFF:105°C± 5°C ON:85°C± 10°C 3E4, T210
Self-reset Thermal cutout on magnetron (With 105°C Self-reset Thermal cutout on oven is mutually exclusive in application)	Guangdong HuilongElectrical Appliance Co.,Ltd.	KSD301	AC 250V10A OFF:180°C± 5°C ON:140°C± 10°C 3E4, T210

9. Update the standard to EN 60335-1: 2012 / A15: 2021.

10. Add alternative control panel PCB MEL829-S which is same as original except for additional OSC, details as below:

New circuit diagram of PCB MEL829-S	Original circuit diagram of PCB MEL829-S
 <p>The diagram shows the electrical circuit for the new PCB MEL829-S. It includes a power input section, a control section with various components like resistors, capacitors, and transistors, and a motor control section. A red circle highlights a specific component in the control section.</p>	 <p>The diagram shows the electrical circuit for the original PCB MEL829-S. It is very similar to the new diagram but lacks the component highlighted by the red circle. The red circle highlights the same location in both diagrams for comparison.</p>

For relevant test, see 'summary of test'.

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
<b>11</b>	<b>HEATING</b>		--
11.1	No excessive temperatures in normal use		P
11.2	The appliance is held, placed or fixed in position as described .....	Placed on table	P
	Appliances, other than built-in appliances, are positioned as specified for heating appliances. (IEC 60335-2-25)	Placed on the floor as near to the walls as possible	N/A
	Height of ceiling : (IEC 60335-2-25)	20 cm	P
11.3	Temperature rises, other than of windings, determined by thermocouples		P
	Temperature rises of windings determined by resistance method, unless	Turntable motor winding, fan motor winding, H,V, transformer winding	P
	the windings are non-uniform or it is difficult to make the necessary connections	H.F. transformer winding	P
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W) .....		N/A
11.5	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V).....	1,06 x 240 V = 254,4 V	P
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V).....		N/A
11.7	Appliances are operated for three cycles (heating period of 10mn) separated by a 1 min rest period (IEC 60335-2-25)		P
11.8	Temperature rises monitored continuously and not exceeding the values in table 3 .....	(see appended table)	P
	If the temperature rise of a motor winding exceeds the value of table 3, or		N/A
	if there is doubt with regard to classification of insulation,		N/A
	tests of Annex C are carried out		N/A
	Sealing compound does not flow out		P
	Protective devices do not operate, except		P
	components in protective electronic circuits tested for the number of cycles specified in 24.1.4		N/A
	The temperature rises of external surfaces are only measured on the surfaces that are not placed against the wall and the floor of the test corner (IEC 60335-2-25)		P

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
	No temperature rise limits for air-outlet grilles and for surfaces up to a distance of 25mm from them (IEC 60335-2-25)		P
<b>19</b>	<b>ABNORMAL OPERATION</b>		--
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts		P
	Temperature rises not exceeding the values shown in table 9 .....	(see appended table)	P
	Compliance with clause 8 not impaired		P
	If the appliance can still be operated it complies with 20.2		P
	Insulation, other than of class III appliances or class III constructions that do not contain live parts, withstands the electric strength test of 16.3, the test voltage as specified in table 4:		--
	- basic insulation (V) .....	1000 V	P
	- supplementary insulation (V) .....		N/A
	- reinforced insulation (V).....	3000 V	P
	After operation or interruption of a control, clearances and creepage distances across the functional insulation withstand the electric strength test of 16.3, the test voltage being twice the working voltage		P
	The appliance does not undergo a dangerous malfunction, and		P
	no failure of protective electronic circuits, if the appliance is still operable		N/A
	Appliances tested with an electronic switch in the off position, or in the stand-by mode:		--
	- do not become operational, or		N/A
	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4		N/A
	If the appliance contains lids or doors that are controlled by one or more interlocks, one of the interlocks may be released provided that:		--
	- the lid or door does not move automatically to an open position when the interlock is released, and		N/A
	- the appliance does not start after the cycle in which the interlock was released		N/A

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
	the temperature of windings not exceeding the values specified in Table 8. Only appliances that allow pre-selected start time and those operating with a keep-warm function are considered to be appliances operated until steady conditions established (IEC 60335-2-25)		P
	During the test the microwave leakage shall not exceed 100W/m <sup>2</sup> measured in accordance with clause 32 but with the load specified for each subclause (IEC 60335-2-25)	2,8 W/m <sup>2</sup>	P
	The appliance shall comply with clause 32 after the tests. (IEC 60335-2-25 )	3,5 W/m <sup>2</sup>	P
19.101	Appliance operated at highest power level without load in the cavity ..... (IEC 60335-2-25)		P
	- Test duration		P
19.102	Test with normal operation; timer and controls made inoperative (IEC 60335-2-25)		P
19.103	Appliances are operated under normal operation and with any single fault condition simulated that is likely to occur. The controls are adjusted to their most unfavourable setting and the appliance is operated for the maximum time allowed by the timer or 90 min, whichever is shorter.: (IEC 60335-2-25 )		P
<b>22</b>	<b>CONSTRUCTION</b>		--
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts		P
	Obvious locked position of snap-in devices used for fixing such parts		N/A
	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing		N/A
	Tests as described	Control panel, knob	P
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard		P
	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard		P
	A choking hazard does not apply to appliances for commercial use		N/A
	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied		P

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied		P
	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard		P
<b>30</b>	<b>RESISTANCE TO HEAT AND FIRE</b>		--
30.1	External parts of non-metallic material,		P
	parts supporting live parts, and		P
	parts of thermoplastic material providing supplementary or reinforced insulation		P
	sufficiently resistant to heat		P
	Ball-pressure test according to IEC 60695-10-2		P
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C)..... :	(see appended table)	P
	Parts supporting live parts tested at 40°C plus the maximum temperature rise determined during the test of clause 11, or at 125 °C, whichever is the higher; temperature (°C)..... :	(see appended table)	P
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C)..... :		N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		--
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		N/A
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		P
	Compliance checked by the test of 30.2.1, and in addition:		P
	- for attended appliances, 30.2.2 applies		N/A
	- for unattended appliances, 30.2.3 applies		P
	For appliances for remote operation, 30.2.3 applies		N/A
	For base material of printed circuit boards, 30.2.4 applies		P

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
	For appliances with preselected start-time, and those with a keep-warm function, 30.2.3 applies (IEC 60335-2-25)		P
	For other appliances, 30.2.2 applies (IEC 60335-2-25)		N/A
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C	(See appended table)	P
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or		N/A
	the material is classified at least HB40 according to IEC 60695-11-10		N/A
	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF		N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and		N/A
	parts of non-metallic material within a distance of 3mm of such connections,		N/A
	subjected to the glow-wire test of IEC 60695-2-11		N/A
	The test severity is:		--
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least:		--
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		--
	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or		N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10 .....		N/A
	Glow-wire test not applicable to conditions as specified .....		N/A

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2		P
	The tests are not applicable to conditions as specified..... :		N/A
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and		P
	parts of non-metallic material, other than small parts, within a distance of 3 mm,		P
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(See appended table)	P
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C		N/A
30.2.3.2	Parts of non-metallic material supporting connections, and		P
	parts of non-metallic material within a distance of 3mm,		P
	subjected to glow-wire test of IEC 60695-2-11		P
	The test severity is:		--
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	(See appended table)	P
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following classifications:		--
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	<ul style="list-style-type: none"> <li>• 775 °C, for connections carrying a current exceeding 0,2 A during normal operation</li> </ul>		N/A
	<ul style="list-style-type: none"> <li>• 675 °C, for other connections</li> </ul>		N/A
	- a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
	The glow-wire test is also not carried out on small parts. These parts are to:		--
	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or		N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
	The consequential needle-flame test of Annex E applied to non-metallic parts that encroach within the vertical cylinder placed above the centre of the connection zone and on top of the non-metallic parts supporting current-carrying connections, and parts of non-metallic material within a distance of 3 mm of such connections if these parts are those:		--
	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or		N/A
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts for which the needle-flame test of Annex E was applied, or		N/A
	- small parts for which a material classification of V-0 or V-1 was applied		N/A
	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:		--
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A
	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E	(See appended table)	P
	Test not applicable to conditions as specified ..... :		N/A

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict

11		TABLE: Heating (test schedule)			P
Test no.	Clause	Model	Test condition	Supply / Time / Position / Load	Remark
1	11.8	P70T20AL-VC	Microwave mode	Supply with 254,4 V; Operated for three cycles, each cycle consisting of a heating period of 10 min followed by a rest period of 1 min	P
2	11.8	P70T20L-VC	Microwave mode	Supply with 254,4 V; Operated for three cycles, each cycle consisting of a heating period of 10 min followed by a rest period of 1 min	P
Remark: Above test was conducted at ambient temperature 20±5°C					

11.8 a		TABLE: Heating test, thermocouples for model P70T20AL-VC		P
Thermocouple locations		dT (K)	Max. dT (K)	
H,F, transformer winding		45,5	85, Class 130	
Opto-coupler		41,6	T100-25=75	
Relay ambient		47,3	T85-25=60	
PCB		44,4	120	
Internal surface of the panel plastic		38,9	For clause 30.1	
Interlock switch		52,2	T105-25=80	
Lamp holder		112,0	T170-25=145	
Cavity thermal cut-out		65,7	Ref.	
Magnetron metal cover (near the internal wire)		69,3	Ref.	
H,V, transformer primary winding		144,6	180, Class 220	
H,V, transformer Thermal Protector		131,2	Ref.	
Fan motor winding		51,3	85, Class 130	
Turntable motor winding		53,5	80, Class 120	
Power cord		35,5	50	
H,V, fuse plastic supper		48,1	For clause 30.1	
High voltage capacitor		39,0	T85-25=60	
X2 capacitor on Noise filter board		45,2	T105-25=80	
Y capacitor on Noise filter board		44,3	T125-25=100	
Plastic supporting fan motor		52,7	For clause 30.1	
Plastic supporting door-switch system		57,0	For clause 30.1	
Internal wire of VPC		57,9	T105-25=80	

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
Internal wire of HV transformer		51,3	T200-25=175
External left metal enclosure		23,6	59
External top metal enclosure		22,0	59
External right metal enclosure		33,8	59
External back metal enclosure		28,1	59
Window		16,2	65
Door handle		8,9	60
Surface of the panel plastic		13,5	74
Button on control panel		9,2	60
Test corner (right)		24,4	65
Test corner (back)		32,2	65
Test corner (bottom)		26,1	65
Test corner (top)		14,0	65
Supplementary information:			

11.8 a	TABLE: Heating test, resistance method for model P70T20AL-VC					P
Temperature rise of winding	R1 ( $\Omega$ )	R2 ( $\Omega$ )	dT (K)	Max. dT (K)	Insulation class	
Fan motor winding	385,6	470,5	55,8	95	130	
Turntable motor winding	284,5	349,9	58,3	90	120	
HV transformer Pri. Winding	3,02	4,95	157,2	180	220	
HV transformer Sec. Winding	224,5	370,1	159,6	180	220	
Supplementary information:						

11.8 b	TABLE: Heating test, thermocouples for model P70T20L-VC		P
Thermocouple locations	dT (K)	Max. dT (K)	
Timer ambient	52,9	T85-25=60	
Timer plastic	47,8	For clause 30.1	
Internal surface of the panel plastic	45,4	For clause 30.1	
Power cord (inside)	43,1	50	
High voltage capacitor	56,2	T85-25=60	
Lamp holder	131,0	T170-25=145	
Cavity thermal cut-out	70,8	Ref.	
Interlock switch (middle one)	70,3	T105-25=80	
Magnetron metal cover (near the internal wire)	69,2	Ref.	

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict
	Fan motor winding	65,1	85, Class 130
	Turntable motor winding	69,1	80, Class 120
	H,V, transformer primary winding	141,9	180, Class 220
	H,V, transformer Thermal Protector	128,5	Ref.
	Internal wire for VPC	60,9	T105-25=80
	Internal wire for H,V, transformer	68,1	T200-25=175
	X2 capacitor on Noise filter board	61,7	T105-25=80
	Y capacitor on Noise filter board	56,9	T125-25=100
	PCB of Noise filter board	57,9	120
	Relay on Noise filter board	52,9	T85-25=60
	Plastic supporting door-switch system	61,8	For clause 30.1
	Plastic supporting fan motor	49,6	For clause 30.1
	Window (centre point)	15,6	65
	Door handle	10,1	60
	Knob	11,8	60
	Surface of control panel	20,5	60
	External left metal enclosure	22,5	59
	External top metal enclosure	30,4	59
	External back metal enclosure	28,0	59
	External right metal enclosure	39,0	59
	Test corner (back)	34,4	65
	Test corner (bottom)	41,5	65
	Test corner (right side)	28,5	65
	Test corner (top)	17,1	65
Supplementary information:			

11.8 b	TABLE: Heating test, resistance method for model P70T20L-VC					P
Temperature rise of winding	R1 (Ω)	R2 (Ω)	dT (K)	Max. dT (K)	Insulation class	
Fan motor winding	372,6	474,1	69,3	95	130	
Turntable motor winding	276,3	356,1	73,5	90	120	
HV transformer Pri. Winding	2,96	4,82	154,7	180	220	
HV transformer Sec. Winding	222,5	364,6	156,9	180	220	
Supplementary information:						

IEC 60335-2-25			
Clause	Requirement - Test	Result - Remark	Verdict

13.2	TABLE: Leakage current		P
	Heating appliances: 1.15 x rated input (W) .....	--	—
	Motor-operated and combined appliances: 1.06 x rated voltage (V) .....	1,06 x 240 V = 254,4 V	—
Leakage current between		I (mA)	Max. allowed I (mA)
Live part and earthed metal part		0,322	0,75
Live part and control panel		0,022	0,35 (peak)
Supplementary information: --			

13.3	TABLE: Electric strength		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
Live part and earthed metal part		1000	No
Live part and control panel		3000	No
Supplementary information: --			

19	TABLE: Abnormal operation						P
Test no.	Clause	Model	Test condition	Supply	Time / Position / Load / MW-Output	Remark	
1	19.101	P70T20AL-VC	Microwave mode: controls set full power position and without load in the cavity.	240 V	Until steady condition	P	
2	19.102	P70T20AL-VC	Microwave mode: Disable timer	240 V	Until steady condition	P	
3	19.103	P70T20AL-VC	Microwave mode: Block the air outlet	240 V	90 min	P	
4	19.103	P70T20AL-VC	Microwave mode: Block the air inlet	240 V	90 min	P	
5	19.103	P70T20AL-VC	Microwave mode: Lock turntable motor	240 V	90 min	P	
6	19.103	P70T20AL-VC	Microwave mode: Lock fan motor	240 V	90 min	P	
7	19.101	P70T20L-VC	Microwave mode: controls set full power position and without load in the cavity.	240 V	Until steady condition	P	
8	19.102	P70T20L-VC	Microwave mode: Disable timer	240 V	Until steady condition	P	

IEC 60335-2-25						
Clause	Requirement - Test			Result - Remark		Verdict
9	19.103	P70T20L-VC	Microwave mode: Block the air outlet	240 V	30 min	P
10	19.103	P70T20L-VC	Microwave mode: Block the air inlet	240 V	30 min	P
11	19.103	P70T20L-VC	Microwave mode: Lock turntable motor	240 V	30 min	P
12	19.103	P70T20L-VC	Microwave mode: Lock fan motor	240 V	30 min	P
Supplementary information: All tests were conducted at ambient temperature 20±5°C.						

19.13	TABLE: Abnormal operation, thermocouples				P
	Thermocouple locations	$\Delta T$ (K)	Max. $\Delta T$ (K)	Remarks	
1	H,F, transformer winding	65,8	150	Class 130	
2	Opto-coupler	72,4	75	T100	
3	Internal surface of the panel plastic	52,9	--	For clause 30.1	
4	H,V, transformer primary winding	158,6	225	Class 220	
5	Fan motor winding	114,2	150	Class 130	
6	Turntable motor winding	86,1	140	Class 120	
7	Power cord	84,1	150	--	
8	Test corner	51,2	150	--	

24.1	TABLE: Components information					P
Object/part No.	manufacturer/trademark	type/model	technical data	standard	mark(s) of conformity	
Fan motor (Copper winding)	Galanz	GAL6309E(30)-ZD	AC 220-240V, 50/60Hz, Class B	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance	
Alt. (Aluminium winding)	Galanz	GAL6309E(30)-ZD	AC 220-240V, 50/60Hz, Class B	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance	
Turntable motor	Galanz	SM-16T	AC 30 V, 50/60Hz, 3 W, Class E	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance	
Timer (30 mins)	Galanz	TM30MU01E(30)	Motor: AC 30 V, 50 Hz, Contact: AC 250 V, 8 A, T85, 3E3	IEC 60730-2-7: 2015 IEC 60730-1: 2013 + A1: 2015 EN 60730-1: 2016 + A1: 2019 EN 60730-2-7: 2020	ITS 170720097 GZU-001	

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Galanz	TM30MU04E(30)	Motor: AC 30 V, 50 Hz, Contact: AC 250 V, 8 A, T85, 3E3	IEC 60730-2-7: 2015 IEC 60730-1: 2013 + A1: 2015 EN 60730-1: 2016 + A1: 2019 EN 60730-2-7: 2020	ITS 170720097 GZU-001
Alt.	Hangzhou Tianma Time- control Si- Tech Co.,Ltd	DDFB-30	AC 250 V, 50 Hz, 1E4, T120	IEC 60730-2-7: 2015 IEC 60730-1: 2013 + A1: 2015 EN 60730-1: 2016 + A1: 2019 EN 60730-2-7: 2020	TÜV Rd J 50192047
High voltage capacitor	Ningbo Bicai Industry Co., Ltd.	CH85 21090	AC 2100 V, T85, 0,9uF, 50/60Hz	IEC 61270-1: 1996 EN 61270-1: 1996	VDE 138073
Alt.	Anhui Juan kuang Electric Co.,Ltd	CH85	AC 2100 V, T85, 0,9uF, 50/60Hz	IEC 61270-1: 1996 EN 61270-1: 1996	VDE 40041452
High voltage diode	Nantong Gaoxin Electronic Co.,Ltd	CL01-12	FVD:12 V, AFC: 350 mA RBV:12,5 KV	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	RugaoDachan g Electronics Co.,Ltd	CL01-12	FVD: 12 V, AFC: 350 mA RBV: 12 KV	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	Nantong Gaoxin Electronic Co.,Ltd	CL04-12	FVD:12 V, AFC: 450 mA, RBV:12 KV	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	RugaoDachan g Electronics Co.,Ltd	CL04-12	FVD: 12 V, AFC: 450 mA, RBV: 12 KV	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
High voltage fuse	Shanghai Songshan Electronics Co., Ltd	GERF1-40	AC 5KV, 0,65 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TÜV Rd J 50099362
Alt.	Shanghai Songshan Electronics Co., Ltd	GERF-IV	AC 5KV, 0,65 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TÜV Rd J 50099362

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Dongguan Better Electronics Technology Co., Ltd.	HV or 722	AC 5KV, 0,65 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TÜV Rd J 50136139
Alt.	Shanghai Songshan Electronics Co., Ltd	GERF-VII	AC 5KV 0.65A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TÜV Rd J 50099362
H.V. transformer	Galanz	GAL-700E-4	AC 230-240 V, 50Hz, Class 220	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Thermal Protector on H.V. transformer (High voltage fuse and thermal Protector on H.V. transformer are mutually exclusive when it comes to application)	Jiangsu Yitong Control System Co., Ltd.	17AM***	AC 250 V, 10 A Tf170, 1E4	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TUV Rd R 50286149
Alt.	ChangShu Xin DuAn Electric Co., Ltd	17AM-x	AC 250 V, 10 A Tf170, 1E4	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TUV Rd R 50350788
Alt.	Jiangsu Yitong Control System Co., Ltd.	17AM***	AC 250 V, 10 A Tf180, 1E4	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TUV Rd R 50286149
Alt.	ChangShu Xin DuAn Electric Co., Ltd	17AM-x	AC 250 V, 10 A Tf180, 1E4	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TUV Rd R 50350788

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Lamp holder	YuyaoChangh ong Electric Factory	E14-A	AC 250 V, 2 A, E14, T170	IEC 60238: 2016 EN 60238: 2018 + A1: 2018	VDE 40004460
Lamp and holder (Integrated lamp)	Deqing New MinghuiElectri c Lighting Co.,Ltd.	Z187	Holder: 250 V, 2 A Lamp: 230 V, 20 W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	Ningbo Jiahong Lighting And Technology Co Ltd	Z187	Holder: 250 V, 2 A Lamp: 230 V, 20 W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	DeqingDinghu i Lighting Co.,Ltd.	F-E14	Holder: 250 V, 2 A Lamp: 230 V, 20 W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	DeqingXinjuyu anAppliance Lighting Co., Ltd.	F-E14	Holder: 250 V, 2 A Lamp: 230 V, 20 W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	Dongguan HeYu Lighting Products Co., Ltd.	Z187	Holder: 250 V, 2 A Lamp: 230 V, 20 W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	Deqing New MinghuiElectri c Lighting Co.,Ltd.	Z187	Holder: 250 V, 2 A LED Lamp:230V,1W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	MLS CO.,LTD	Z187	Holder: 250 V, 2 A LED Lamp:230V,1W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	MLS CO.,LTD	Z187	Holder: 250 V, 2 A LED Lamp:230V,1,5W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Alt.	Deqing New MinghuiElectri c Lighting Co.,Ltd.	Z187	Holder:250V 2A LED Lamp: 230V,1.5W	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Magnetron	Galanz	M24FA-210A	PO: 520W FO: 2450-2470MHz	IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Micro switch	Guangdong Galanz Enterprises Co., Ltd.	W-15-102C W-15-202C W-15-302C	AC 250 V, 15 A, T105, 5E4	IEC 61058-1: 2016 IEC 61058-1-1: 2016 EN IEC 61058-1: 2018 EN 61058-1-1: 2016	TUV Rd R 50181337
Alt.	Yueqing Tongda Wire Electric Factory	HK-14	AC 250 V, 16 A, T125, 50E3	IEC 61058-1: 2016 IEC 61058-1-1: 2016 EN IEC 61058-1: 2018 EN 61058-1-1: 2016	VDE 40027032

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Shanghai Qiaoh Industry Co., Ltd.	V-J	AC 250 V, 16 A, T125, 5E4	IEC 61058-1: 2016 IEC 61058-1-1: 2016 EN IEC 61058-1: 2018 EN 61058-1-1: 2016	UL ENEC-00074-A3
Plastic Control Panel	CHI MEI corporation	ABS PA-777D	94HB	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E56070 Tested with appliance
Alt.	LG CHEM LTD	ABS HI121H	94HB	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E67171 Tested with appliance
Alt.	LG CHEM LTD	ABS AF312C	94-V0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E67171 Tested with appliance
Alt.	LG CHEM LTD	ABS AF327(&)	94-V0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E67171 Tested with appliance
Alt.	SILVER AGE ENGINEERING PLASTICS (DONGGUAN ) CO LTD	ABS 3360	94-V0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E225348 Tested with appliance
Alt.	LG CHEM LTD	ABS AF365(&)	94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E67171 Tested with appliance
Alt.	KINGFA SCI & TECH CO LTD	VSLOY-PM	94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E171666 Tested with appliance
Plastic door cover	CHI MEI corporation	ABS PA-777D	94HB	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E56070 Tested with appliance
Alt.	LG CHEM LTD	ABS HI121H	94HB	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E67171 Tested with appliance
Alt.	KINGFA SCI & TECH CO LTD	VSLOY-PM	94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E171666 Tested with appliance
Plastic material supporting micro switch	Guangzhou Keyuan Innovative Materials Co Ltd	PBT301-G20	94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E201440 Tested with appliance
Alt.	Guangdong Rynon New Material Co.,Ltd	PBT-V3020	94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E246958 Tested with appliance
Alt.	Guang Dong High & New Plastic Co Ltd	PBT FR-301	94-V0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E227341 Tested with appliance

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Guang Dong High & New Plastic Co Ltd	PP FR-101	94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E227341 Tested with appliance
Alt.	POLYROCKS CHEMICAL CO.LTD	PP-5000	94-V0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E340831 Tested with appliance
Alt.	Super-Dragon Engineering Plastics Co Ltd	PBTFG430	94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E201164 Tested with appliance
Alt.	Shanghai Kumho Sunny Plastics Co Ltd	PBT37Y0FG-NH	94V-0	IEC 60335-1 IEC 60335-2-25	UL E254819 Tested with appliance
Plastic supporting frame (fan motor & noise filter board)	Guang Dong High & New Plastic Co Ltd	PP FR-101	94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E227341 Tested with appliance
Alt.	POLYROCKS CHEMICAL CO.LTD	PP-5000	94-V0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E340831 Tested with appliance
Alt.	HANWHA TOTAL PETROCHEMICAL CO LTD	PP-HJ730+	94HB	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E140331 Tested with appliance
Alt.	LANZHOU PETROCHEMICAL RESEARCH CENTER, PETROCHINA COMPANY LIMITED	PP-H8020	94HB	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E484007 Tested with appliance
Alt.	KINGFA SCI & TECH CO LTD	PP-91020	94HB	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E171666 Tested With appliance
Plug	Galanz	GAL-01V	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	KEMA 4323022.01
Alt.	Unirise Electric Wire & Cable Co.,Ltd	UE-312	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40013356
Alt.	Guangdong Rifeng Wire & Cable Co., Ltd	RF-01	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40026780
Alt.	Shenzhen Tongyuan Industrial Co., Ltd	TY-E301A	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40029748

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Mainland Wire & Cable Co.,Ltd.	ML-302	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40012805
Alt.	Guangdong Xiongrun Electrical Co.,Ltd.	XR-322	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40006857
Alt.	I-Sheng Electric Wire & Cable Co.,Ltd	SP-023	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40013796
Alt.	Dongguan Yuxin Wire & Cable Co.,Ltd.	YX-201	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40001445
Alt.	Friendship Enterprises International Ltd.	FE-03P	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40021547
Alt.	Guangdong Galanz ElectricFittings Manufacturing Co.,Ltd	GAL-01V	AC 250 V, 16 A	DIN VDE 0620-2-1: 2016 + A1: 2017	VDE 40051950
BS Plug	Galanz	GAL-01B	AC 250V, w/approved 13Acurrent fuse	BS 1363-1: 2016 + A1: 2018	TUV Rd R50496707
Alt.	Unirise Electric Wire & Cable Co.,Ltd	UE-324	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 941
Alt.	Mainland Wire & Cable Co.,Ltd.	ML-313	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 876
Alt.	Guangdong Xiongrun Electrical Co.,Ltd.	XR-318A	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 737
Alt.	I-SHENG Electric Wire & Cable Co.,Ltd	SP-60	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 250
Alt.	Dongguan Yuxin Wire & Cable Co.,Ltd.	YX-901	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 1158
Alt.	Shenzhen Tongyuan Industrial Co., Ltd	TY-UK302	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 1083
Alt.	Friendship Enterprises International Ltd.	FE-130P	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 1307

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Friendship Enterprises International Ltd.	FE-129P	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 1293
Alt.	Guangdong Galanz Enterprises co.,Ltd	GAL-01R	AC 250V, w/approved 13A current fuse	BS 1363-1: 2016 + A1: 2018	ASTA 1341
Swiss plug	Unirise Electric Wire & Cable Co.,Ltd	UE-345	AC 250 V, 10 A	IEC 60884-1: 2002 + A1: 2006 SEV 1011: 2009 + A1: 2012	ESTI 20.0701
Alt.	Mainland Wire & Cable Co., Ltd.	ML-317	AC 250 V, 10 A	IEC 60884-1: 2002 + A1: 2006 SEV 1011: 2009 + A1: 2012	ESTI 20.0310
Alt.	Guangdong Xiongrun Electrical Co.,Ltd.	XR-313	AC 250 V, 10 A	IEC 60884-1: 2002 + A1: 2006 SEV 1011: 2009 + A1: 2012	ESTI 20.0120
Alt.	I-SHENG Electric Wire & Cable Co.,Ltd	SP-027C	AC 250 V, 10 A	IEC 60884-1: 2002 + A1: 2006 SEV 1011: 2009 + A1: 2012	ESTI 18.0605
Alt.	Dongguan Yuxin Wire & Cable Co.,Ltd.	YX-SEV01	AC 250 V, 10 A	IEC 60884-1: 2002 + A1: 2006 SEV 1011: 2009 + A1: 2012	ESTI 15.0731
Alt.	Friendship Enterprises International Ltd	FE-119P	AC 250 V, 10 A	IEC 60884-1: 2002 + A1: 2006 SEV 1011: 2009 + A1: 2012	ESTI 19.0047
South Africa Plug	Galanz	GAL-01S	AC 250 V, 16 A	SANS164-1: 2006	140804048 GZU-001
Alt.	Guangdong Mainland Wire & Cable Co., Ltd.	ML-316	AC 250 V, 16 A	SANS164-1: 2006	SABS 8502/15242
Alt.	Guangdong Rifeng Wire & Cable Co., Ltd	RF-86	AC 250 V, 16 A	SANS164-1: 2006	GSD- 17AU0620A TSP
Alt.	I-SHENG Electric Wire & Cable Co., Ltd	SP-80A	AC 250 V, 16 A	SANS164-1: 2006	SABS 7276/14037
Alt.	Friendship Enterprises International Ltd.	FE-07P	AC 250 V, 16 A	SANS164-1: 2006	ML/107801 AA
Power cord	Dongguan Yuxin Wire & Cable Co., Ltd.	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40012386

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Unirise Electric Wire & Cable Co.,Ltd	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40017449
Alt.	Guangdong Rifeng Wire & Cable Co.,Ltd	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40043895
Alt.	I-SHENG Electric Wire & Cable Co.,Ltd	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40006070
Alt.	Shenzhen Tongyuan Industrial Co., Ltd	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 101980
Alt.	Guangdong Mainland Electric Wire & Cable Co., Ltd.	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40010355
Alt.	Guangdong Xiongrun Electrical Co., Ltd.	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40020627
Alt.	Ningbo Light-Heavy Electronics Technology Co., Ltd	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40035166
Alt.	Guangdong Awin Wire& Cable Co., Ltd	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40023114
Alt.	Shenzhen Baohing Electric Wire & Cable Manufacture Co., Ltd.,	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 103727
Alt.	Yutong Electronics (Huizhou) Co., Ltd,	H05VV-F	3G 1,0mm <sup>2</sup> 3G 0,75mm <sup>2</sup>	EN 50525-2-11: 2011 IEC 60227-5: 2011	VDE 40034488
Internal wire to H.V. transformer	Jiangyin Qianlima electrical material co., LTD	3239	60000V,200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E204933 Tested with appliance
Internal wire	Linoya Electronic Technology Co Ltd	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E315619 Tested with appliance

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Jiangyin Jiangzhou Copper Product Co Ltd	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E341212 Tested with appliance
Alt.	Yang Tai Wire & Cable Co Ltd	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E214859 Tested with appliance
Alt.	Yutong Electronics (HuiZhou) Co., LTD	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E301048 Tested with appliance
Alt.	Dongguan Evk Electric Technique Co Ltd	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E302679 Tested with appliance
Alt.	HanstarFluoro-Plastic Insulated Electric Wires	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E159007 Tested with appliance
Alt.	Dongguan Sheng Pai Electric Wire & Cable Co Ltd	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E347603 Tested with appliance
Alt.	Foshan Shunde Huakun Electric Co Ltd	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E305878 Tested with appliance
Alt.	Shenzhen Bao Hing Electric Wire & Cable Mfr Co Ltd	1015	16-22AWG, 600V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E168141 Tested with appliance
Alt.	Kelin Wire Co Ltd (Dongguan)	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E250866 Tested with appliance
Alt.	Fu Tai Electronics SdnBhd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E314597 Tested with appliance
Alt.	Zhongshan Fuyuantong Wire & Cable Co Ltd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E241989 Tested with appliance
Alt.	Jiangyin Jiangzhou Copper Product Co Ltd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E341212 Tested with appliance

IEC 60335-2-25					
Clause	Requirement - Test		Result - Remark		Verdict
Alt.	Dongguan Evk Electric Technique Co Ltd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E302679 Tested with appliance
Alt.	Yang Tai Wire & Cable Co Ltd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E214859 Tested with appliance
Alt.	Yutong Electronics (HuiZhou) Co., LTD	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E301048 Tested with appliance
Alt.	Linoya Electronic Technology Co Ltd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E315619 Tested with appliance
Alt.	HanstarFluoro-Plastic Insulated Electric Wires	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E159007 Tested with appliance
Alt.	Dongguan Sheng Pai Electric Wire & Cable Co Ltd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E347603 Tested with appliance
Alt.	Foshan Shunde Huakun Electric Co Ltd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E305878 Tested with appliance
Alt.	Shenzhen Bao Hing Electric Wire & Cable Mfr Co Ltd	1569	16-22AWG,300V, 105°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E168141 Tested with appliance
Alt.	Guangzhou FengtaiMeihua Cable Co Ltd	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E204798 Tested with appliance
Alt.	Nizing Electric Co Ltd	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E215834 Tested with appliance
Alt.	Shenzhen Mysun Insulation Materials Co Ltd	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E239689 Tested with appliance
Alt.	Dongguan Evk Electric Technique Co Ltd	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E302679 Tested with appliance
Alt.	Yang Tai Wire & Cable Co Ltd	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E214859 Tested with appliance

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	HanstarFluoro -Plastic Insulated Electric Wires	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E159007 Tested with appliance
Alt.	Guangdong Rifeng Electric Cable Co Ltd	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E243545 Tested with appliance
Alt.	Foshan Shunde Huakun Electric Co Ltd	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E305878 Tested with appliance
Alt.	Dongguan Sheng Pai Electric Wire & Cable Co Ltd	1332	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E347603 Tested with appliance
Alt.	Shenzhen Mysun Insulation Materials Co Ltd	3122	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E239689 Tested with appliance
Alt.	Dongguan Evk Electric Technique Co Ltd	3122	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E302679 Tested with appliance
Alt.	Guangzhou FengtaiMeihu a Cable Co Ltd	3122	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E204798 Tested with appliance
Alt.	Dongguan Boli Electronic Co Ltd	3122	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E305164 Tested with appliance
Alt.	Nizing Electric Co Ltd	3122	16-22AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E215834 Tested with appliance
Alt.	Yang Tai Wire & Cable Co Ltd	3122	16-26AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E214859 Tested with appliance
Alt.	Foshan Shunde Pantai Special Wire Rod Electronics Co Ltd	3122	16-26AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E346532 Tested with appliance
Alt.	HanstarFluoro -Plastic Insulated Electric Wires	3122	16-26AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E159007 Tested with appliance
Alt.	Guangdong Rifeng Electric Cable Co Ltd	3122	16-26AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E243545 Tested with appliance

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Dongguan Sheng Pai Electric Wire & Cable Co Ltd	3122	16-26AWG, 300V, 200°C	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E347603 Tested with appliance
PCB/PWB material	Shunde Junda Electronic	JD-B /JD-B1/ JD-D/JD-E	UL94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E173873 Tested with appliance
Alt.	Guangdong Chengde Electronic Technology Co Ltd	1/2/D1	UL94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E322995 Tested with appliance
Alt.	Kin Yip Technology Electronics (Huizhou) Co Ltd	KY033H, KY003, DS-206, ML-401	UL94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E303478 Tested with appliance
Alt.	DONGGUAN WANNIENFU ELECTRONIC CO LTD	04V0 101V0 03V0	UL94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E88653 Tested with appliance
Alt.	Mei Zhou Li Yu Da Cricuit Board Co Ltd	LYD-2 LYD-3 LYD-4	UL94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E320265 Tested with appliance
Alt.	HUNG HING ELECTRONIC S CO., LTD	HF-02A HF-07A HF-08 HH-01 HH-02 HH-03 HH-05 HH-06	UL94V-0	IEC/EN 60335-1 IEC/EN 60335-2-25	UL E327405 Tested with appliance
Self-reset Thermal cutout on Oven	Foshan TianpengTher nostatsCO.,Ltd	T1/11	AC 250 V, 10 A, 1E5, T170, OFF:105°C±5°C ON:85°C±10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TÜV Rd R50091097
Alt.	Jiangsu Changheng Group Control Component Co., Ltd.	KSD105	AC 250 V, 10 A, T180, 35E3, OFF:105°C±5°C ON:85°C±10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	VDE 40022995

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	XC Electronics (Shenzhen) Corp. Ltd,	KSD301 105	AC 250 V, 10 A, T150, 1E5, OFF:105°C± 5°C ON:85°C± 10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TÜV Rd R50035898
Alt.	Zhongshan Huilong Electrical Co. Ltd.	KSD301	AC 250 V, 10 A, T210, 1E5, OFF:105°C± 5°C ON:85°C± 10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	VDE 40034938
Alt.	Guangdong Huilong Electrical Appliance Co., Ltd.	KSD301	AC 250V 10A OFF:105°C± 5°C ON:85°C± 10°C 3E4, T210	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TUV SUD B 097593 0001
Alt.	ChangShu Xin DuAn Electric Co., Ltd.	KSD1	AC 250 V, 10 A, T220, 1E4, OFF:105°C± 5°C ON:85°C± 10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TÜV Rd R 50374776
Self-reset Thermal cutout on magnetron (With 105°C Self-reset Thermal cutout on oven is mutually exclusive in application)	Foshan Tianpeng Thermostats Co., Ltd	T1/22	AC 250 V, 10 A, 1E5, T170, OFF:180°C±5°C ON:140°C±10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TÜV Rd R50091213
Alt.	Jiangsu Changheng Group Control Component Co., Ltd.	KSD180	AC 250 V, 10 A, T180, 35E3, OFF:180°C±5°C ON:140°C±10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	VDE 40022995

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	XC Electronics (Shenzhen) Corp. Ltd,	KSD301 180	AC 250 V, 10 A, T150, 1E5, OFF:180°C±5°C ON:140°C±10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TÜV Rd R50035898
Alt.	Zhongshan Huilong Electrical Co. Ltd.	KSD301	AC 250 V, 10 A, T210, 1E5, OFF:180°C±5°C ON:140°C±10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	VDE 40034938
Alt.	Guangdong Huilong Electrical Appliance Co., Ltd.	KSD301	AC 250V10A OFF:180°C± 5°C ON:140°C± 10°C 3E4, T210	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TUV SUD B 097593 0001
Alt.	ChangShu Xin DuAn Electric Co., Ltd.	KSD1	AC 250 V, 10 A, T220, 1E4, OFF:180°C±5°C ON:140°C±10°C	IEC 60730-1: 2013 + A1: 2015 IEC 60730-2-9: 2015 + A1: 2018 EN 60730-1: 2016 + A1: 2019 EN 60730-2-9: 2019 + A1 + A2	TÜV Rd R 50374776
Components of Noise Filter, FD0-1K20(Galanz), are listed as below:					
X2 capacitor	Guandong Fengming Electronic Tech. Co., Ltd.	MKP-X2	AC 275 V, X2, 0,22uF, T105	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40025702
Alt.	Foshan Shunde Beijiao Hua Da Electric Industrial Co., Ltd	HD-series	AC 275 V, X2, 0,22uF, T105	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40027182
Alt.	Shenzhen Shenfeng Electronics Co., Ltd.	CBB62	AC 275 V, X2, 0,22uF, T100	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40031777
Alt.	Shenzhen Su Rong Capacitors Co., Ltd.	MPX/MKP	X2, AC 280V, 0.22uF, T100	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40008924

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Y2 capacitor	Haohua Electronic Co.,	CT7	Y2, AC 250 V, 4700pF, T125	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40013601
Alt.	Nanjing Yuyue Electronics Co.,Ltd.	CT7	Y2, AC 250 V, 4700pF, T125	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40008013
Relay	Guangdong Galanz Enterprises Co.,Ltd.	JD7-S-124LA	Contact: AC 240 V, 10 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50204875
Alt.	Ningbo TianboGanglian Electronics Co.,Ltd.	HJR-21FF-S-H	Contact: AC 240 V, 12 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50116165
Alt.	Xiamen Hongfa Electroacoustics Co.,Ltd.	HF152FD 24-1HST	Contact: AC 250 V, 10 A, Coil: DC 24 V, T105, 1E5	IEC 61810-1:2015 EN 61810-1:2015	VDE 40031203
Alt.	Xiamen Hongfa Electroacoustics Co.,Ltd.	HF3FF 024-1H	Contact: AC 250 V, 10 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50148356
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPA-S-124-A	Contact: AC 250 V, 10 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50184948
Alt.	Ningbo TianboGanglian Electronics Co.,Ltd.	HJR-3FF-S-H	Contact: AC 250 V, 10 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	VDE 40005471
Current Fuse	Dongguan Better Electronics Technology Co.,Ltd.	524	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40020107
Alt.	Littelfuse Inc	215	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40013521
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RF1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J50078894

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Sun Electric Co.	5C	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd R 50202839
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RT1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J 50287669
Alt.	XC Electronics (Shen Zhen)Corp. Ltd.	5C	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40037026
Components of Noise Filter, FD9-1K00 or FD9-1K06(Galanz), are listed as below:					
X2 capacitor	GuandongFengming Electronic Tech.Co.,Ltd.	MKP-X2	AC 275 V, X2, 0,1uF, T105	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40025702
Alt.	Foshan Shunde Beijiao Hua Da Electric Industrial Co.,Ltd	HD-series	AC 275 V, X2, 0,1uF, T105	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40027182
Alt.	Shenzhen Shenfeng Electronics Co.,Ltd.	CBB62	AC 275 V, X2, 0,1uF, T100	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40031777
Alt.	Shenzhen Su Rong Capacitors Co., Ltd.	MPX/MKP	X2, AC 280V, 0,1uF, T100	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40008924
Y2 capacitor	Haohua Electronic Co.,	CT7	Y2, AC 250 V, 2200pF, T125	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40013601
Alt.	Nanjing Yuyue Electronics Co.,Ltd.	CT7	Y2, AC 250 V, 2200pF, T125	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40008013
Relay	Guangdong Galanz Enterprises Co.,Ltd.	JD7-S-124LA	Contact: AC 240 V, 10 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50204875
Alt.	Ningbo TianboGanglian Electronics Co.,Ltd.	HJR-21FF-S-H	Contact: AC 240 V, 12 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50116165

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Xiamen Hongfa Electroacoustics Co.,Ltd.	HF152FD 24-1HST	Contact: AC 250 V, 10 A, Coil: DC 24 V, T105, 1E5	IEC 61810-1:2015 EN 61810-1:2015	VDE 40031203
Alt.	Xiamen Hongfa Electroacoustics Co.,Ltd.	HF3FF 024-1H	Contact: AC 250 V, 10 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50148356
Alt.	Zhejiang Meishuo Electric Technology Co., LTD	MPA-S-124-A	Contact: AC 250 V, 10 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50184948
Alt.	Ningbo TianboGanglian Electronics Co.,Ltd.	HJR-3FF-S-H	Contact: AC 250 V, 10 A, Coil: DC 24 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	VDE 40005471
Current Fuse	Dongguan Better Electronics Technology Co.,Ltd.	524	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40020107
Alt.	Littelfuse Inc	215	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40013521
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RF1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J50078894
Alt.	Sun Electric Co.	5C	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd R 50202839
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RF1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J 50287670
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RT1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J 50287669

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	XC Electronics (Shen Zhen)Corp. Ltd.	5C	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40037026
Alt.	Dongguan Better Electronics Technology Co., Ltd.	522	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40019022
Alt.	XC Electronics (Shen Zhen)Corp. Ltd.	5T	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40009610
Components of Noise Filter, FN14-1K00 or FN14-1K06 (Galanz), are listed as below:					
X2 capacitor	GuandongFengming Electronic Tech.Co.,Ltd.	MKP-X2	AC 275 V, X2, 0,1uF, T105	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40025702
Alt.	Foshan Shunde Beijiao Hua Da Electric Industrial Co.,Ltd	HD-series	AC 275 V, X2, 0,1uF, T105	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40027182
Alt.	Shenzhen Shenfeng Electronics Co.,Ltd.	CBB62	AC 275 V, X2, 0,1uF, T100	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40031777
Alt.	Shenzhen Su Rong Capacitors Co., Ltd.	MPX/MKP	X2, AC 280V, 0,1uF, T100	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40008924
Y2 capacitor	Haohua Electronic Co.,	CT7	Y2, AC 250 V, 2200pF, T125	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40013601
Alt.	Nanjing Yuyue Electronics Co.,Ltd.	CT7	Y2, AC 250 V, 2200pF, T125	IEC 60384-14: 2013 EN 60384-14: 2013	VDE 40008013
Current Fuse	Dongguan Better Electronics Technology Co.,Ltd.	524	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40020107

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Littelfuse Inc	215	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40013521
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RF1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J 50078894
Alt.	Sun Electric Co.	5C	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd R 50202839
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RF1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J 50287670
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RT1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J 50287669
Alt.	XC Electronics (Shen Zhen)Corp. Ltd.	5C	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40037026
Alt.	Dongguan Better Electronics Technology Co., Ltd.	522	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40019022
Alt.	XC Electronics (Shen Zhen)Corp. Ltd.	5T	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40009610
Components of Fuse Board, FB1-1G, are listed as below: (Fuse Board and Noise Filter are mutually exclusive when it comes to application)					

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Current Fuse	Dongguan Better Electronics Technology Co.,Ltd.	524	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40020107
Alt.	Littelfuse Inc	215	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40013521
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RF1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J 50078894
Alt.	Sun Electric Co.	5C	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd R 50202839
Alt.	Shanghai Songshan Electronics Co.,Ltd.	RT1-20	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	TUV Rd J 50287669
Alt.	XC Electronics (Shen Zhen)Corp. Ltd.	5C	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40037026
Alt.	Dongguan Better Electronics Technology Co., Ltd.	522	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40019022
Alt.	XC Electronics (Shen Zhen)Corp. Ltd.	5T	AC 250 V, 8 A	IEC 60127-1:2006 IEC 60127-2:2014 EN 60127-1: 2006 + A1: 2011 + A2: 2015 EN 60127-2: 2014	VDE 40009610
Components of Control Panel PCB from Galanz, are listed as below for panel PCB model:					
Relay for microwave, main	Xiamen Hongfa Electroacoustic Co. Ltd.	JQX-62F-012-1H	Contact: AC 250 V, 16 A, Coil: DC12 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50147086

IEC 60335-2-25					
Clause	Requirement - Test		Result - Remark	Verdict	
Alt.	Galanz	JD2-1A	Contact: AC 250 V, 16 A, Coil: DC12 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50189204
Alt.	Ningbo TianboGangli an Electronics Co., Ltd	TRA2F-12VDC- H	Contact: AC 250 V, 16 A, Coil: DC12 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50113138
Alt.	Zhejiang Meishuo Electric Technology Co.,LTD	MPL-112-A	Contact: AC 250 V, 16 A, Coil: DC12 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50236892
Relay for mains (for MEL series PCB)	Tyco Electronics (Shenzhen) Co., Ltd.	OJ-SS-112LM	Contact: AC 250 V, 3 A, Coil: DC12 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50139166
Alt.	Xiamen Hongfa Electroacousti c Co. Ltd.	JZC-32F-012- HSL3	Contact: AC 250 V, 3 A, Coil: DC12 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	VDE 40012204
Alt.	Ningbo TianboGangli an Electronics Co., Ltd	TRG1D-12VDC- S-H	Contact: AC 250 V, 5 A, Coil: DC12 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50108695
Alt.	Zhejiang Meishuo Electric Technology Co.,LTD	MPD-S-112-A	Contact: AC 250 V, 5 A, Coil: DC12 V, T85, 1E5	IEC 61810-1:2015 EN 61810-1:2015	TUV Rd R50184948
Switch mode power supply PCB incorporated in control panel PCB (MEL829-S):					
High frequency transformer	GALANZ	GAL-TR006	Pri. winding: N1: Φ 0,17mm×37Ts N2: Φ0,17mm×111Ts N3: Φ 0,17mm×0,9Ts Sec. winding: N4: Φ 0,35mm×6Ts N5: Φ 0,40mm×8Ts Class 130	IEC 61558-1: 2005 + A1: 2009 IEC 61558-2-16: 2009 + A1: 2013 EN 61558-2-16: 2009 + A1: 2013 IEC/EN 60335-1 IEC/EN 60335-2-25	Tested with appliance
Optocoupler	SHARP CORP ELECTRONIC	PC817	Viso=5000V, T100	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE 40008087
Alt.	Lite-On Technology Corporation	LTV-817	Viso=5000V, T110	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE 40015248

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Toshiba Corporation	TLP785	Viso=5000V, T115	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE 40031808
Switch mode power supply PCB incorporated in control panel PCB (MBL943-S)					
High frequency transformer	Galanz	GAL-TR009	Pri. winding: N1: Φ0,16mm×130Ts N4: Φ0,16mm×17Ts E1: Φ0,16mm×14Ts Sec. winding: N2: Φ0,40mm×13Ts N3: Φ0,30mm×7Ts Class B	IEC/EN 60335-1 IEC/EN 60335-2-25 IEC/EN 60335-2-9 IEC/EN 61558-1 IEC/EN 61558-2-16	Tested with appliance
Fuse link on PCB	Dongguan Better Electronic Technology Co Ltd	932	AC 250V, 1A	EN 60127-3: 2015 EN 60127-1:2006+A1: 2011 + A2: 2015 IEC 60127-1: 2006 + A1 + A2 IEC 60127-3: 2015	VDE 40033369
Alt.	XC Electronics(shenzhen)Corp. Ltd	5TE	AC 250V,1A	EN 60127-3: 2015 EN 60127-1:2006+A1: 2011 + A2: 2015 IEC 60127-1: 2006 + A1 + A2 IEC 60127-3: 2015	VDE 40036821
Alt.	Shanghai Songshan Electronics	RT1-8	AC 250V,1A	EN 60127-3: 2015 EN 60127-1:2006+A1: 2011 IEC 60127-1: 2006 + A1 IEC 60127-3: 2015	TUV Rd R50345269
Alt.	Xiamen Set Electronics Co. Ltd.,	SPT478	AC 250V,1A	EN 60127-3: 2015 EN 60127-1:2006+A1: 2011 + A2: 2015 IEC 60127-1: 2006 + A1 + A2 IEC 60127-3: 2015	VDE 40049409
Varistor	FenghuaAdv. Tech.(Holding )Co.,Ltd.	FNR-10K471 FNR-14K471	Varistor Voltage: 470V,T85	IEC 61051-1:2007 IEC 61051-2:1991 IEC 61051-2:1991/A1:2009 IEC 61051-2-2:1991 EN 61051-1: 2009	VDE 40008242

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Haohua Electronic Co.,	HVR 10K471, HVR 14K471	Varistor Voltage: 470V,T85	IEC 61051-1:2007 IEC 61051-2:1991 IEC 61051-2:1991/A1:2009 IEC 61051-2:1991 EN 61051-1: 2009	VDE 40031718
Alt.	Centra Science Corp.	CNR-10D471K CNR-14D471K	Varistor Voltage: 470V,T85	IEC 61051-1:2007 IEC 61051-2:1991 IEC 61051-2:1991/A1:2009 IEC 61051-2:1991 EN 61051-1: 2009	VDE 40008220
Optocoupler	SHARP CORP ELECTRONIC	PC817	Viso=5000V, T100	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE400080 87
Alt.	Lite-On Technology Corporation	LTV-817	Viso=5000V, T110	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE 40015248
Alt.	Toshiba Corporation	TLP785	Viso=5000V, T115	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE 40031808
Switch mode power supply PCB incorporated in control panel PCB (MEL964-S)					
High frequency transformer	Galanz	GAL-TR006	Pri. winding: N1: Φ0,17mm×37Ts N2: Φ0,17mm×111Ts N3: Φ0,17mm×0,9Ts Sec. winding: N4: Φ0,35mm×6Ts N5: Φ0,40mm×8Ts Class B	IEC/EN 60335-1 IEC/EN 60335-2-25 IEC/EN 60335-2-9 IEC/EN 61558-1 IEC/EN 61558-2-16	Tested with appliance
Varistor	FenghuaAdv. Tech.(Holding )Co.,Ltd.	FNR-10K471 FNR-14K471	Varistor Voltage: 470V,T85	IEC 61051-1:2007 IEC 61051-2:1991 IEC 61051-2:1991/A1:2009 IEC 61051-2:1991 EN 61051-1: 2009	VDE 40008242

IEC 60335-2-25					
Clause	Requirement - Test			Result - Remark	Verdict
Alt.	Haohua Electronic Co.,	HVR 10K471, HVR 14K471	Varistor Voltage: 470V,T85	IEC 61051-1:2007 IEC 61051-2:1991 IEC 61051-2:1991/A1:2009 IEC 61051-2:1991 EN 61051-1: 2009	VDE 40031718
Alt.	Centra Science Corp.	CNR-10D471K CNR-14D471K	Varistor Voltage: 470V,T85	IEC 61051-1:2007 IEC 61051-2:1991 IEC 61051-2:1991/A1:2009 IEC 61051-2:1991 EN 61051-1: 2009	VDE 40008220
Optocoupler	SHARP CORP ELECTRONIC	PC817	Viso=5000V, T100	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE 40008087
Alt.	Lite-On Technology Corporation	LTV-817	Viso=5000V, T110	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE 40015248
Alt.	Toshiba Corporation	TLP785	Viso=5000V, T115	IEC 60747-5-5: 2007 + A1: 2013 EN 60747-5-5: 2011 + A1: 2015	VDE 40031808

30.1	TABLE: Ball Pressure Test of Thermoplastics				P
Allowed impression diameter (mm) .....			2,0		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)		Impression diameter (mm)	
Lamp holder	Dongguan HeYu Lighting Products Co., Ltd.	160°C <sup>1)</sup>		1,1 mm	
Plastic Control Panel	KINGFA SCI & TECH CO LTD	100°C <sup>1)</sup>		1,4 mm	
Plastic door frame	KINGFA SCI & TECH CO LTD	100°C <sup>1)</sup>		1,4 mm	
Supplementary information: --					

30.2	TABLE: Resistance to heat and fire - Glow wire tests						P	
Object/ Part No./ Material	Manufacturer / trademark	Glow wire test (GWT); (°C)				Verdict		
		550	650		750		850	
			te	ti	te			ti

IEC 60335-2-25								
Clause	Requirement - Test				Result - Remark			Verdict
Lamp holder	Dongguan HeYu Lighting Products Co., Ltd.				0s	0s	X	P
Plastic Control Panel	KINGFA SCI & TECH CO LTD	X						P
Plastic door frame	KINGFA SCI & TECH CO LTD	X						P
Self-reset Thermal cut-out	Guangdong Huilong Electrical Appliance Co.,Ltd.				0s	0s	X	P
Object/ Part No./ Material	Manufacturer / trademark	Glow-wire flammability index (GWFI), °C				GW ignition temp. (GWIT), °C		Verdict
		550	650	750	850	675	775	
The test specimen passed the glow wire test (GWT) with no ignition $[(t_e - t_i) \leq 2s]$ (Yes/No):								Yes
If no, then surrounding parts passed the needle-flame test of annex E (Yes/No) .....								N/A
The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)? .....								N/A
Ignition of the specified layer placed underneath the test specimen (Yes/No) .....								N/A
Supplementary information:								
- 550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF								
- The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances								

30.2/30.2.4 TABLE: Needle- flame test (NFT)					P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
PCB/PWB material	Mei Zhou Li Yu Da Cricuit Board Co Ltd	30	No	0	Pass
PCB/PWB material	HUNG HING ELECTRONICS CO., LTD	30	No	0	Pass
Supplementary information:					
- NFT not relevant (or applicable) for Parts of material classified as V-0 or V-1					
- NFT not relevant (or applicable) for Base material of PCBs classified as V-0 or if relevant VTM-0					

--- End of report ---

**Attachment 2****Photo documentation**

Type of equipment, model: Microwave Oven / P70T20(x)(y)  
 (x) = L, SL, TL, P, SP, TP, AL, ASL, ATL, AP, ASP, ATP, EL, ESL, ETL  
 (y) = -V1, -V2, -V3, -V4, -V5, -V6, -V7, -V8, -VB, -VC, -VD, -VE, -VL, -VM,  
 -VMA, -VK, -VJ, -CF

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Details of: Alternative construction for position of self-reset thermal cut-out on oven

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View:

- general  
 front  
 rear  
 right  
 left  
 top  
 bottom



Details of: Alternative construction for bottom shape of cavity

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View:

- general  
 front  
 rear  
 right  
 left  
 top  
 bottom

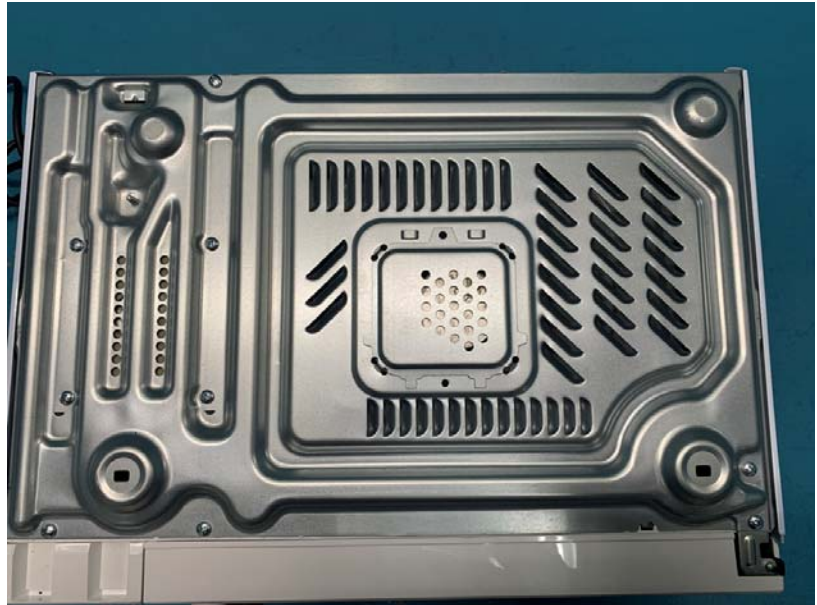


**Attachment 2**

Details of: Alternative type of furnace foot

View:

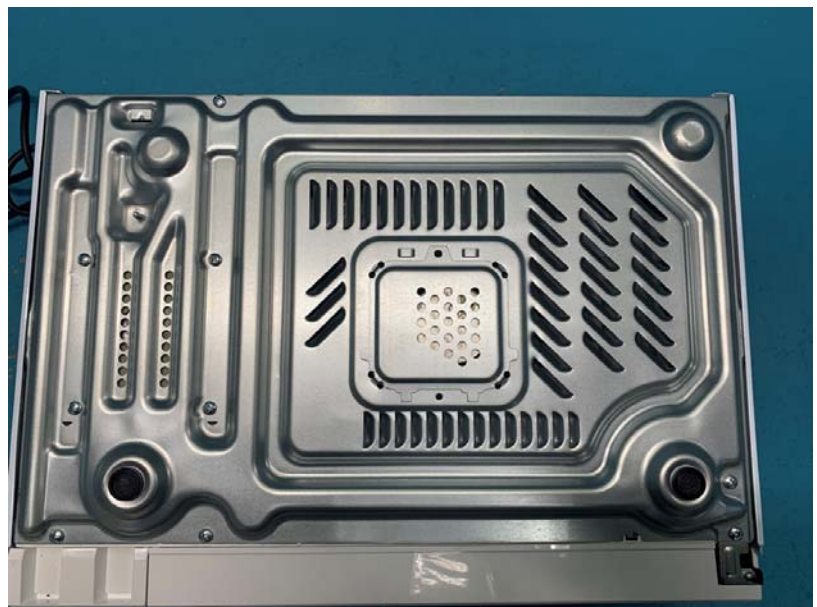
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Alternative type of furnace foot

View:

- general
- front
- rear
- right
- left
- top
- bottom



**Attachment 2**Details of: Alternative type of furnace foot

View:

- general
- front
- rear
- right
- left
- top
- bottom

Details of: Alternative of shape of plastic supporting frame (fan motor & noise filter board)

View:

- general
- front
- rear
- right
- left
- top
- bottom



**Attachment 2**Details of: Alternative fan blade

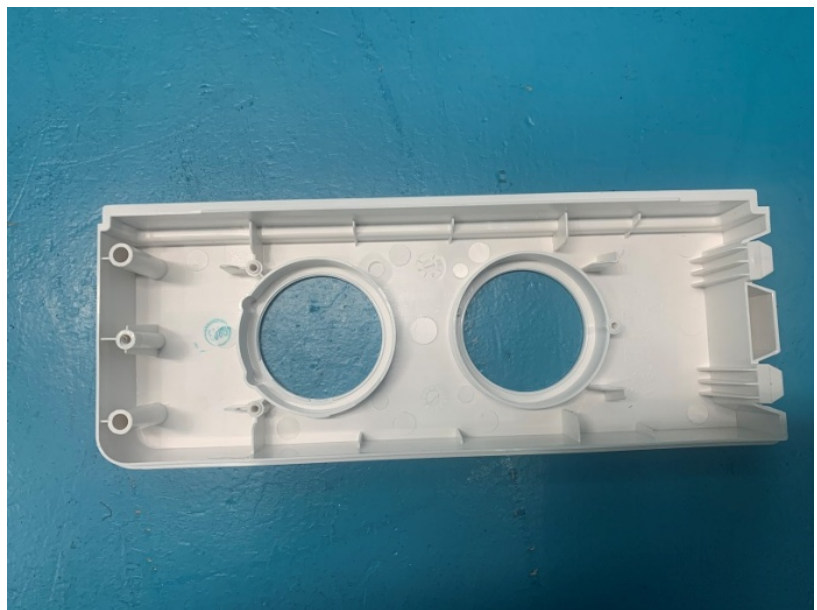
View:

- general
- front
- rear
- right
- left
- top
- bottom

Details of: Alternative construction of control panel

View:

- general
- front
- rear
- right
- left
- top
- bottom

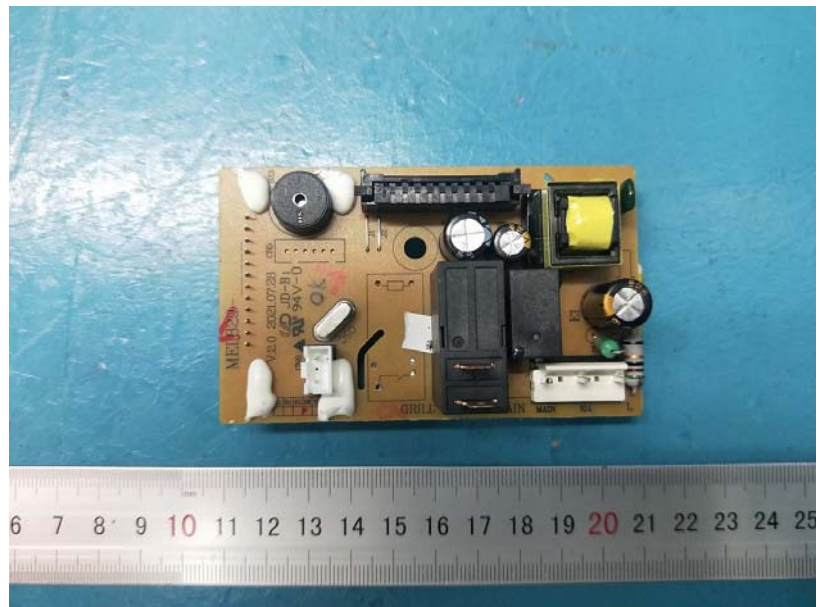


**Attachment 2**

Details of: Alternative control panel PCB MEL829-S

View:

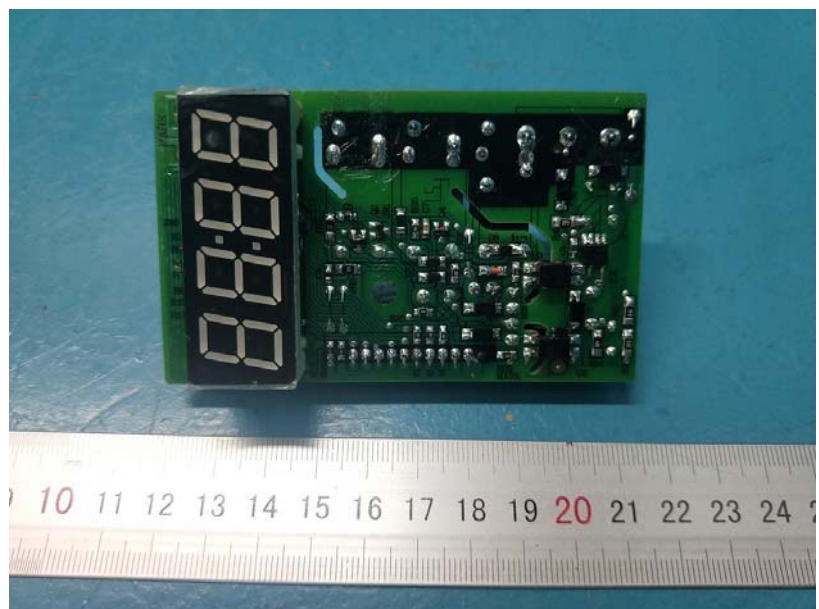
- general
- front
- rear
- right
- left
- top
- bottom



Details of: Alternative control panel PCB MEL829-S

View:

- general
- front
- rear
- right
- left
- top
- bottom



--- End of Attachment 2 ---

**Attachment 5**

<b>EN 60335-1:2012/A15:2021</b>			
<b>Clause</b>	<b>Requirement - Test</b>	<b>Result - Remark</b>	<b>Verdict</b>

<b>ATTACHMENT TO TEST REPORT IEC 60335-1 Household and similar electrical appliances – Safety – Part 1: General requirements</b>	
<b>Differences according to:</b>	EN 60335-1:2012/A15:2021
<b>Attachment Form No.:</b>	EN 60335-1/A15
<b>Attachment Originator:</b>	SGS-CSTC
<b>Master Attachment:</b>	Date 2021-07

## Attachment 5

EN 60335-1:2012/A15:2021			
Clause	Requirement - Test	Result - Remark	Verdict
<b>20</b>	<b>STABILITY AND MECHANICAL HAZARDS</b>		—
20.2	Replace “dangerous” with “hazardous” (twice).		P
<b>22</b>	<b>CONSTRUCTION</b>		—
22.44	In sub Clause 22.44, replace the text by the following:		—
	An appliance is child-appealing if one of the following criteria is present:		N/A
	— appliance decorated using faces, cartoon like characters, or similar images;	no used such decorated	N/A
	— appliance using shapes representing animals, characters, persons or scale models.	no such shapes	N/A
	An appliance is child-appealing if more than one of the following criteria are present:		—
	— using non-functional light (functional light is e.g. illumination of an object or area, signal indicating status of an appliance);	functional indicator	N/A
	— using non-functional sound (e.g. music);		N/A
	— using non-functional movement.		N/A
	If the appliance is child-appealing, has a mass less than 4 kg or is mounted or normally intended for use at a height less than 850 mm, the following conditions shall be met:		N/A
	— No surface (both <b>functional surfaces</b> and non-functional) that are accessible by means of test probe 19 of IEC 61032 located at a height less than 850 mm shall exceed the temperature rises stated below:  <i>Temperature rise</i> — of bare metal 38K — of coated metal 42K — of glass and ceramic 51K — of plastic having a thickness exceeding 0,4 mm 58K		N/A
	— Hazardous <b>moving parts</b> shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 20.2.		N/A
	— <b>Live parts</b> shall not be accessible by means of test probe 19 of IEC 61032 under the conditions specified for test probe 18 in Clause 8.1.1.		N/A
	— Liquid in the appliance shall not exceed 38 °C in normal use when it is accessible by means of test probe 19 under the conditions specified for test probe 18 in Clause 20.2 or can get out of the appliance when positioned in different positions. Vessels in which two independent and sequential actions are needed to access the liquid are considered to meet the requirement.		N/A
	— The requirement of 22.12 is applicable for all accessible parts of the appliance.		N/A

**Attachment 5**

<b>EN 60335-1:2012/A15:2021</b>			
<b>Clause</b>	<b>Requirement - Test</b>	<b>Result - Remark</b>	<b>Verdict</b>
	The requirement is not applicable to appliances where there is a toy shaped like the appliance.		N/A
	Compliance is checked by inspection and appropriate tests.		N/A
<b>24</b>	<b>COMPONENTS</b>		—
24.1	In the note, replace the word “NOTE Z3” with “NOTE Z1”		—
24.1.7	Replace the sub clause with the following:		—
	If the <b>remote operation</b> of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151.		N/A
<b>Annex ZA</b>	<b>Special national conditions</b>		—
	Modify the reference for Clause 25.8 by adding Cyprus to the countries listed		P
<b>Annex ZB</b>	<b>A-deviations</b>		—
	Delete the second paragraph, including the note, starting with: “This European standard/Harmonization Document ....”		—
<b>Annex ZC</b>	<b>Normative references to international publications with their corresponding European publications</b>		—
	The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.		P
<b>Annex ZF</b>	<b>Criteria applied for the allocation of products covered by standards in the EN 60335 series under LVD or MD</b>		—
	Replace in the eighth bullet the “Directive 2006/95/EC” with “Directive 2014/35/EU”		P
<b>Annex ZH</b>	<b>Common plug and socket-outlet types in CENELEC countries</b>		—
<b>ZH.1 General</b>	After the first paragraph, add the following note:		—
	NOTE: The dimensions of the plugs are purely for information. The exact dimensions of the plugs can be found in the relevant national standards.		P
<b>ZH.3.2 Cyprus</b>	Replace the text as follows:		—
	Only plugs according to standard sheets GB1, GB6 and GB7 of IEC/TR 60083 are allowed. They correspond with plug designations: EU9, EU6 and EU10.		not check
<b>ZH.3.4 Finland</b>	Replace the first paragraph as follows:		—

**Attachment 5**

<b>EN 60335-1:2012/A15:2021</b>			
<b>Clause</b>	<b>Requirement - Test</b>	<b>Result - Remark</b>	<b>Verdict</b>
	Plugs according to Publications SFS 5610 and SFS-EN 50075 are allowed. Plugs according to Publications SFS 5215 and SFS-EN 60309 are allowed.		not check
<b>ZH.3.9 Netherlands</b>	Only plugs according to NEN 1020:2019 are allowed, standard sheets:		—
	16 A 250 V class I plug (L+N+PE) with side earthing EU2		not check
	16 A 250 V class I plug (L+N+PE) with dual (side and pin) earthing EU4		not check
	2,5 A 250 V class II plug EU5		not check
	16 A 250 V class II plug EU7		not check
	16 A 400/230 V class I plug EU8		not check
	Or plug according EN 50075 is allowed, standard sheet:		—
	2,5 A 250 V class II plug EU6		not check
<b>ZH.3.14 Switzerland</b>	Replace the clause by following:		—
	Supply cords of portable household and similar electrical appliances having a rated current not exceeding 16 A shall be provided with a plug complying with SN 441011-1:2019.		P
	The Table A is applicable for Plug with IP20		P
	Table B is applicable for plug with IP55.		N/A

--- End of this Attachment---