

PRODUCT SPECIFICATION

CATEGORY : HIGH VOLTAGE TRANSFORMER

PART NO : EDX-JK1000CC

P/N MARKED : _____

1. Scope

This specification covers the high voltage transformer, part number(P/N) EDX-JK1000CC delivered to (customer) _____ for use in MICRO-WAVE OVEN

2. Application safety standard

- KS _____ UL 1446 _____ CSA _____ VDE _____ BS _____
 IEC Pub. 335-1 and Pub. 335-25 CLASS I _____ OTHER : _____

3. General Appearance

- 3.1 The general appearance of the transformer shall be acceptable without deformation, cracks or corrosion.
 3.2 The shape, dimensions and marking of the transformer shall be as specified in the assembly drawing.
 3.3 Classification of terminal : #187 Faston Tabs & #250 Receptacles

4. Mechanical Performance

- 4.1 Terminal Strength. Each terminal of the transformer shall be capable of withstanding an axial pull of 10 kg applied gradually and maintained for 60 seconds, without loosening, breaking or other damage.

5. Electrical Performance

- 5.1 Rated Primary Voltage : AC 230 V
 5.2 Rated Frequency : 50 Hz
 5.3 Rated Output Power : 1000 Watt
 5.4 Secondary Voltage Tolerances :

Winding Code	No load voltage (rms)	Voltage Tolerance	Equipment test
S1(High Voltage)	AC 2300 V	± 30 V	Moving iron coil
S2 (filament Voltage)	AC 3.25 V	± 0.1 V	Moving iron coil

- 5.5 No-load current. The no-load current shall not exceed 5.00 A when a test voltage of 230 V, 50 Hz is applied across the 230 V primary input terminals.
 5.6 No-load loss. The no-load loss shall not exceed 80 W when a test voltage of 230 V 50 Hz is applied across the 230 V primary input terminals.
 5.7 Dielectric withstand test. The transformer shall be capable of withstanding the following dielectric withstand test voltage applied between parts stated without breakdown. The setting of the dielectric test leak current shall be 5 mA.

Test Voltage Applied Between	Type Test		Production Test	
	Test Voltage	Time	Test Voltage	Time
Primary winding and core	2,000 V (RMS)	1 min	2,500 V (RMS)	7 s
Filament coil and core	8,000 V (RMS)	1 min	8,500 V (RMS)	7 s
Filament coil and primary winding	8,000 V (RMS)	1 min	8,500 V (RMS)	7 s

- 5.8 Induced voltage dielectric test. The transformer shall be capable of withstanding without breakdown an application of test voltage 400 Hz, 690 V for 18 seconds across the 230 V primary input terminals with all the secondary windings open and the normally grounded terminals connected to the core.
 5.9 Insulation resistance. The insulation resistance between the windings and between the windings and core shall be not less than 100 megaohms when measured at 500V DC and under unloaded cold condition. (Excepted from between core and secondary winding 1)

Customer		GEMERCE		Inspection Record and Certificate of Compliance		Cat. No.		EDX - JK1000CC		Date	
Lot Size		Lot No.		29Z06ZPV		3 Pcs		Judgement		2006.12.29	
Inspection Item		No Load Current		No Load Voltage		Induced Vol. Test		Approved		Temp.	
Spec.		max		S1 2300		400Hz 690V		Checked		20 °C	
Sp1. No.		5.0 A		±0.1 V		18 Sec.		OK		Tested	
1		2.78		S2 3.25		OK		E, P-S2 10.0KV (5mA)		min	
2		2.81		3.25		OK		1 minute		100MΩ	
3		2.79		3.25		OK		OK		OK	
4								OK		OK	
5								OK		OK	
6								OK		OK	
Inspection Item		No Load Loss		Input Voltage : 230V		50Hz		P-E DC 500V		P-S2 DC 500V	
Spec.		max		S1 2300		50Hz		min		min	
Sp1. No.		80 W		±30 V		50Hz		100MΩ		100MΩ	
1		62		2300		50Hz		OK		OK	
2		62		2300		50Hz		OK		OK	
3		63		2300		50Hz		OK		OK	
4								OK		OK	
5								OK		OK	
6								OK		OK	
Inspection Item		Pri ±5%		Sec ±5%		Insulation Resistance		Dimension		Buzzing	
Spec.		1.250Ω		101.9Ω		100MΩ		Bracket		Appearance	
Sp1. No.		1.2406		101.31		100MΩ		Core		Lead Wire	
1		1.2451		101.04		100MΩ					
2		1.2496		101.86		100MΩ					
3											
4											
5											
6											
Inspection Item		1. Dielectric Withstand		P - E : 2.5 KV 3 Sec. (Cutoff 5 mA)		E, P-S2: 10.0 KV 3 Sec. (Cutoff 5 mA)		Design Change No.		Contents	
Spec.		400Hz 690 V 7 Sec. (at Pri. Coil)		3. Insulation Resistance		P-E : DC 500V 100MΩ min.		Note:		Pri Coil: 1.05 mm CU 235 T	
Sp1. No.		400Hz 690 V 7 Sec. (at Pri. Coil)		P-S2 : DC 500V 100MΩ min.		S2-E : DC 500V 100MΩ min.		Sec Coil: 0.37 mm CU 2480.5 T		Heater Coil: SRP 1.0 3.5 T	
1		400Hz 690 V 7 Sec. (at Pri. Coil)		We hardy assure you that the products in this lot are articles of good as a result of 100% inspection to n= pcs. by the above test condition.				Pass Core: 16.0 x 63 x 5.5T		Core: 105 x 63	
2		400Hz 690 V 7 Sec. (at Pri. Coil)						HVT Total: 5.02 kg		Spec (#1 Design)	
3		400Hz 690 V 7 Sec. (at Pri. Coil)									
4		400Hz 690 V 7 Sec. (at Pri. Coil)									
5		400Hz 690 V 7 Sec. (at Pri. Coil)									
6		400Hz 690 V 7 Sec. (at Pri. Coil)									
Inspection Results		We hardy assure you that the products in this lot are articles of good as a result of 100% inspection to n= pcs. by the above test condition.									
This record consists of the above tests and assure you the another items separately.											