

# PRODUCT SPECIFICATIONS

Spec No.

0601098 C

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Model No.

2M236-M42J1

This Specifications is based on the General Rules of Inspection for Electron Tubes ED-1101 and the Testing Methods for Continuous Wave Magnetrons ED-1501 set by the Electronic Industries Association of Japan (EIAJ).

Description	Continuous wave Magnetron (Fixed Frequency, Packaged Magnet, Probe Output)											
Outline	Refer Outline Drawing						Net weight		Approx. 0.9kg			
Absolute Maximum Ratings	Item	Ef	tk	ebm	Ib	ibm	Pi	$\sigma L$	Ta <sup>(6)</sup>	Tp <sup>(2)</sup>	Tc <sup>(2)</sup>	Storage
	Unit	V	sec	kV	mAdc	A	kW	—	°C	°C	°C	°C
	Max.	3.75	—	4.5	350	1.2	1.4	4	350	240 <sup>(3)</sup>	120 <sup>(4)</sup>	60
	Min.	2.8	0	—	—	—	—	—	—	—	—	-30
Standard Test Conditions <sup>(1)</sup>	3.3	3	—	300	—	—	1.1 MAX	—	—	—	—	—

## Test Specifications

Test Item <sup>(8)</sup>	Test Method (ED-1501)	Test Conditions <sup>(1)</sup>	Symbol	Nominal	Limit		Unit	
					Min.	Max.		
**Vibration	5.4.1	—	—	No unusual phenomenon occur				
Breakdown Voltage	4.2	Eb=10kVdc or 7.1kVac t=60s	VBV	No unusual phenomenon occur				
* Filament Current	4.1.1	tk=120s	If	10	8	12	A	
Peak Anode Voltage	4.3.1	<sup>(6)</sup>	ebm	4.15	4.05	4.35	kV	
Average Output Power (1)	4.3.3.1	<sup>(6)</sup>	Po(1)	900	850	—	W	
Frequency	4.3.4	—	f	2460	2450	2470	MHz	
* Load Characteristics	Pulling Figure	4.3.6	$\sigma L=1.5$	fpl	10	—	15	MHz
	Sink Phase	4.3.7	$\sigma L=4$	$\lambda \sin / \lambda g$	0.25	—	—	—
* Stability	Moding (1)	4.3.11.2	$\sigma L=2,3,4$ t=60s	ST	No moding occur			
	Emission Moding (2)	4.3.11.3	t ≤ 5s, Ef=2.5V	Efm				
* Fundamental Frequency Radiation	4.3.15	$\sigma L=4$	SI	—	—	10	W/m <sup>2</sup>	
* Surge Voltage	—	<sup>(7)</sup>	—	—	—	10	kV	
Insulation	—	1kVdc	Rpf	—	1000	—	MΩ	
**Life Test	4.5.1	—	t	—	500	—	h	
** Life Test End Point	Variation Rate against Average Output Power(1)	4.3.3.1	<sup>(6)</sup>	Po(1)	—	—	20	%
	Stability Moding (1)	4.3.11.2	$\sigma L=2,3,4$ t=60s	ST	No moding occur			

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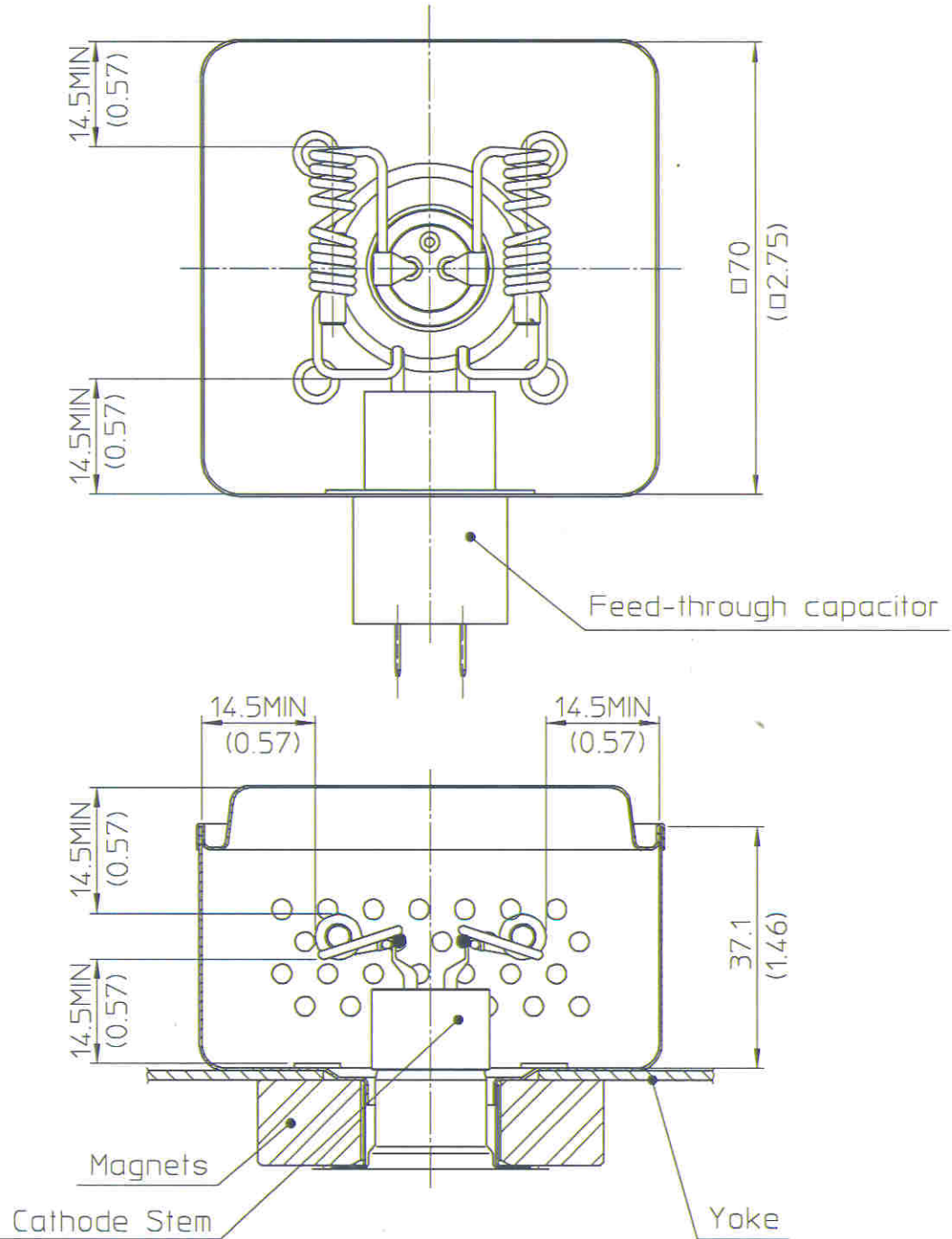
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Fig.5 Clearances

Unit : mm (inch)



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# OUTLINE DRAWING

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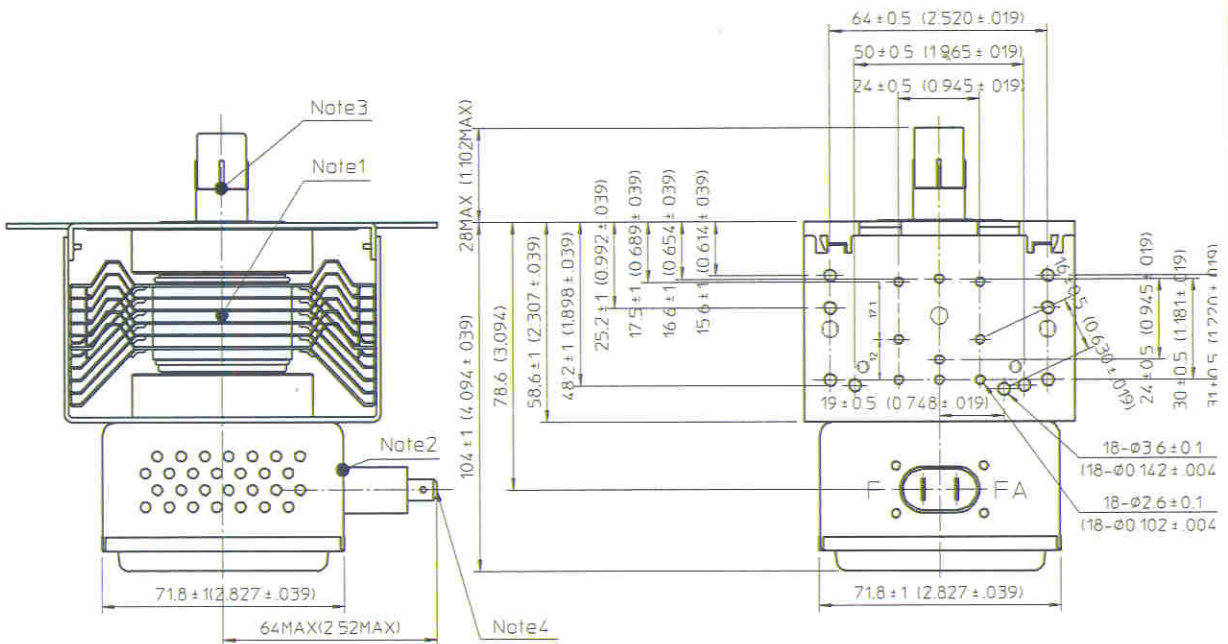
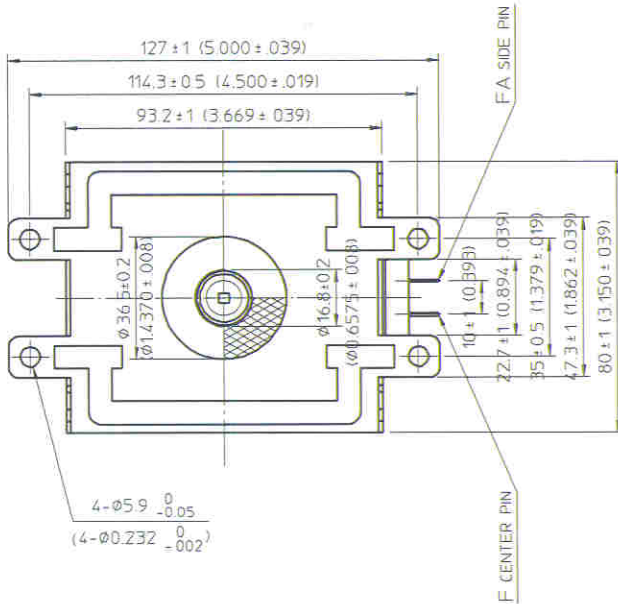
Unit : mm (inch)

Note1. Anode temperature measuring point. To be measured at the outlet side of air flow.

Note2. Filter case temperature measuring point.

Note3. Antenna temperature measuring point.

Note4. Adaptable for #250 faston receptacle.



10/27/2006

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