

Product Specification

Spec No.

1302010 C

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Model No.

2M137A-02BH

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).

Absolute Maximum Rating

Description	Continuous Wave Magnetron (Fixed Frequency, Packaged Magnet and Probe Output)											
Outline	See the Outline Drawing						Net Weight		Approximately 1.3 kg			
Absolute Maximum Rating	Item	Ef	tk	ebm	lb	ibm	Pi	σ_L	Ta ^⑤	Tp ^②	Tc ^②	storage
	Unit	V	s	kV	mAdc	A	kW	—	°C	°C	°C	°C
	Max.	4.8	—	5.00	450	1.6	2.25	4	350	180 ^③	120 ^④	60
	Min.	3.8	0	—	—	—	—	—	—	—	—	-30
Standard Test Condition ^①	4.4	3.0	—	400	—	—	1.1 MAX	—	—	—	—	

Test Specification

Test Item ^⑧	Test Method ED-1501	Test Condition ^①	Symbol	Nominal	Limit		Unit
					Min.	Max.	
*Filament Current	4.1.1	tk=120	If	14	12.5	15.5	A
Peak Anode Voltage	4.3.1	⑥	ebm	4.50	4.30	4.70	kV
Average Output Power (1)	4.3.3.1	⑥	Po(1)	1260	1200	1400	W
Frequency	4.3.4	⑥	f	2460	2445	2470	MHz
*Stability Moding (1)	4.3.11.2	$\sigma_L=2, 3, 4$ t=60s	ST	No Moding			—
Emission Moding (2)	4.3.11.3	Ef=3.0, t≤5s	Efm	No Moding			—
Insulation	4.2	1kVdc	Rpf	—	1000	—	MΩ
Breakdown Voltage	4.2	7.1kVac or 10kVdc, t=60s	V _{BV}	No Abnormality ^⑦			—

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Unit : mm

Note

- ① Tp measurement point
To be measured at the outlet side of air flow.
- ② Tc measurement point
- ③ Ta measurement point
- ④ Adaptable for #250 faston receptacle.

