

PRODUCT SPECIFICATIONS

Spec No. 8282100 C
Model No. 2M282-M12

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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. 1.2 Kg			
Absolute Maximum Ratings	Item	Ef	Ef	tk	Ebm	Ib	Ibm	Pi	σ L	Tp	Tc	Storage
		Stand-by Operation		(³)						(⁴)	(⁴)	
	Unit	V	V	sec	kV	mAdc	A	kW	—	°C	°C	°C
	Max.	4.8	(²)	—	5.0	530	1.9	2.4	4	180	120	60
Min.	3.8	(²)	3	—	—	—	—	—	—	—	-30	
Standard Test Conditions (¹)	4.4	3.7	5	—	480	—	—	MAX	11	—	—	—

Test Specifications

Test Item	Test Method (ED-1501)	Test Conditions (¹)	Symbol	Nominal	Limit		Unit
					Min.	Max.	
* Filament Current	4.1.1	tk=120s	If	14	12.5	15.5	A
Peak Anode Voltage	4.3.1	(²)	ebm	4.5	4.3	4.7	kV
Average Output Power	4.3.3.1	(²)	Po(1)	1500	1440	—	W
Frequency	4.3.4	(²)	F	2455	2440	2470	MHz
Breakdown Voltage	4.2	Eb=10kVdc or 7.1kVac (²) gradual voltage up	BVaf	No unusual phenomenon occur			
* Stability Moding	4.3.11.2	σ L=4 or less	ST'	No moding occurrence			
Emission Moding	4.3.11.3	Ef=2.8V	Efm	No moding occurrence			
Insulation	—	1kVdc	Raf	—	100	—	MΩ

Classification of tests.

- ** mark: Type approval Test.
- * mark: Design Test.
- None: Production Test.

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Fig.1 Cut back of Filament voltage on operation condition

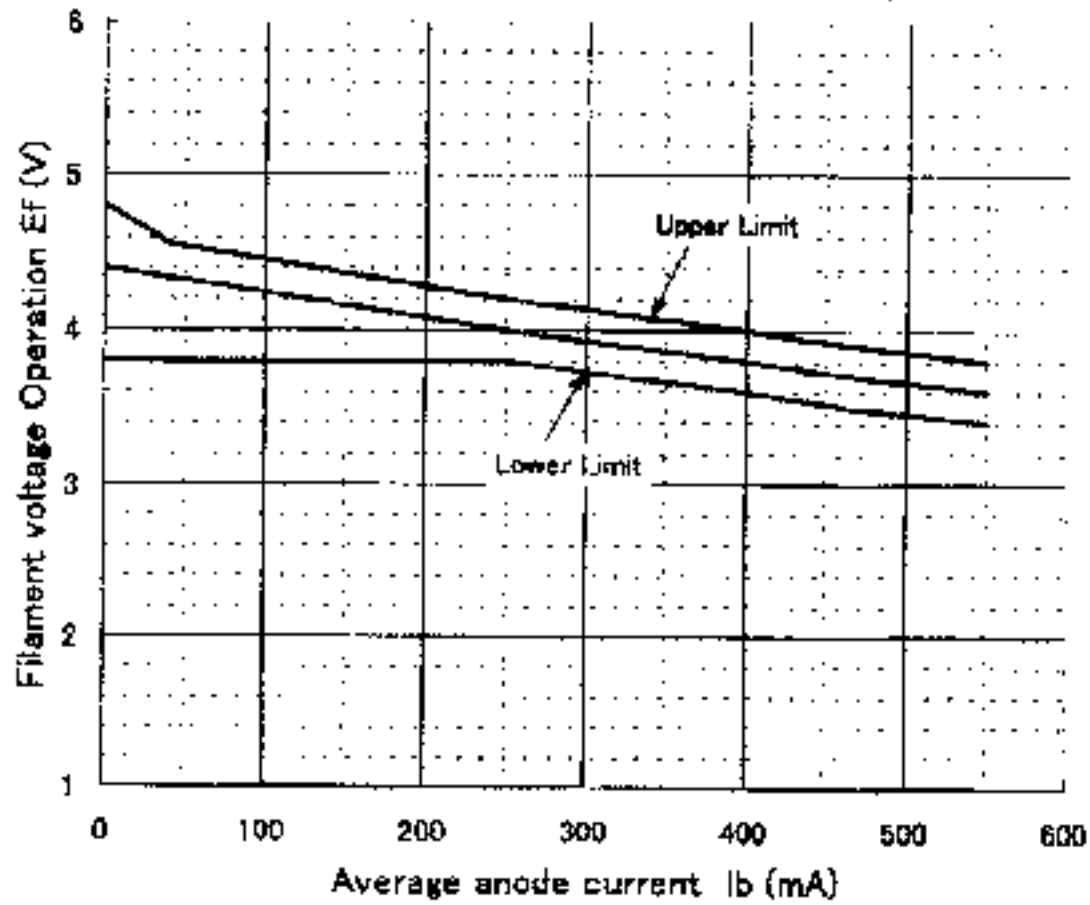
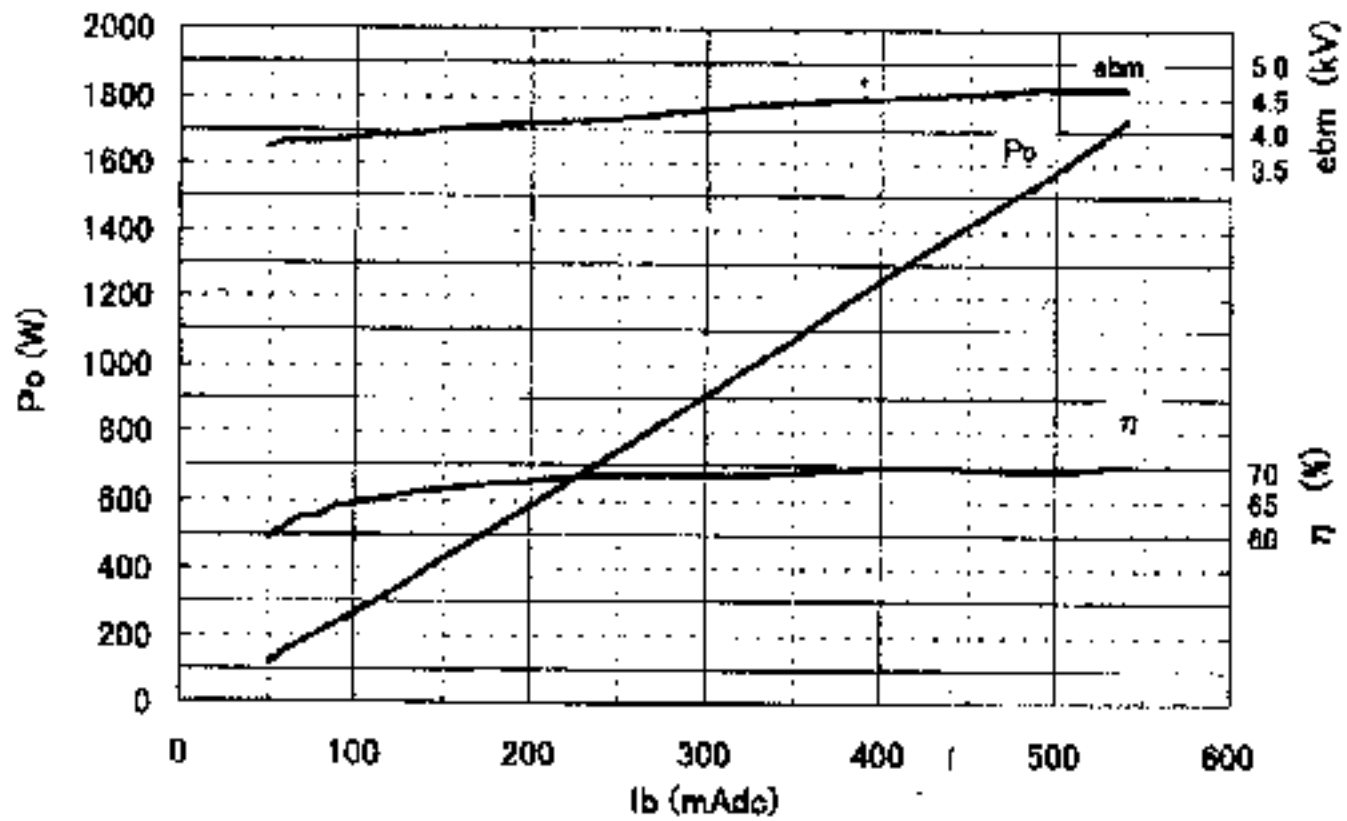


Fig.2 Performance Chart



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OUTLINE DRAWING

Spec No.

8262100 D

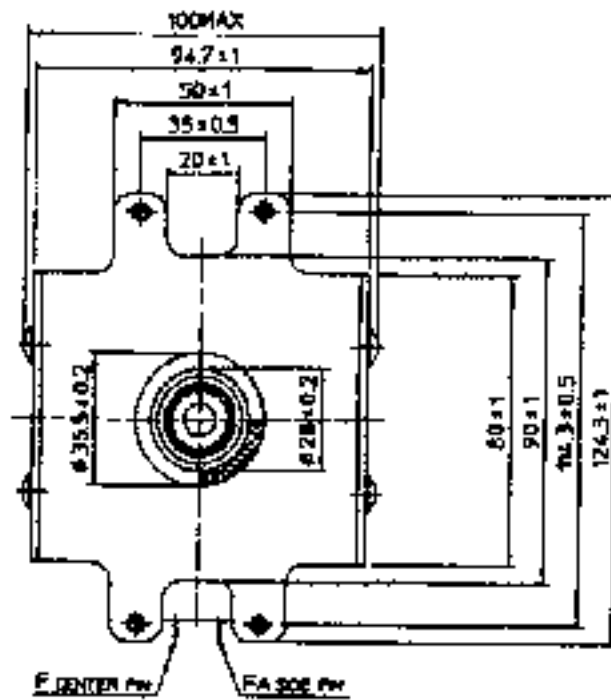
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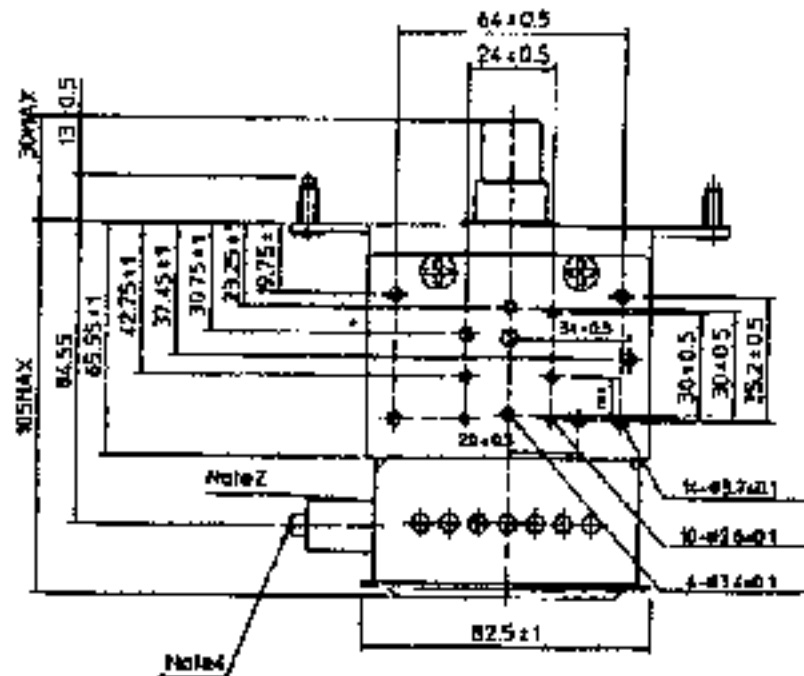
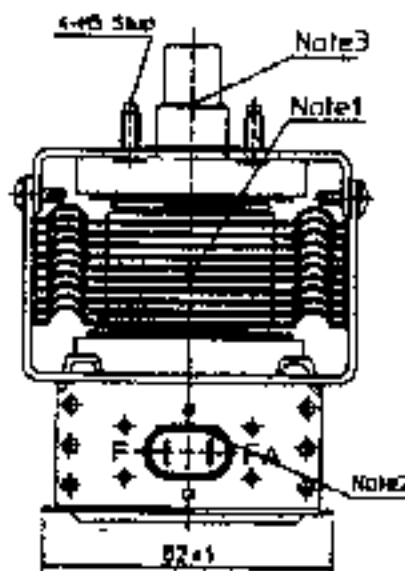
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Unit : mm



- 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 $\phi 250$ fusion receptacle.



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