

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 | lb | lbm | 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

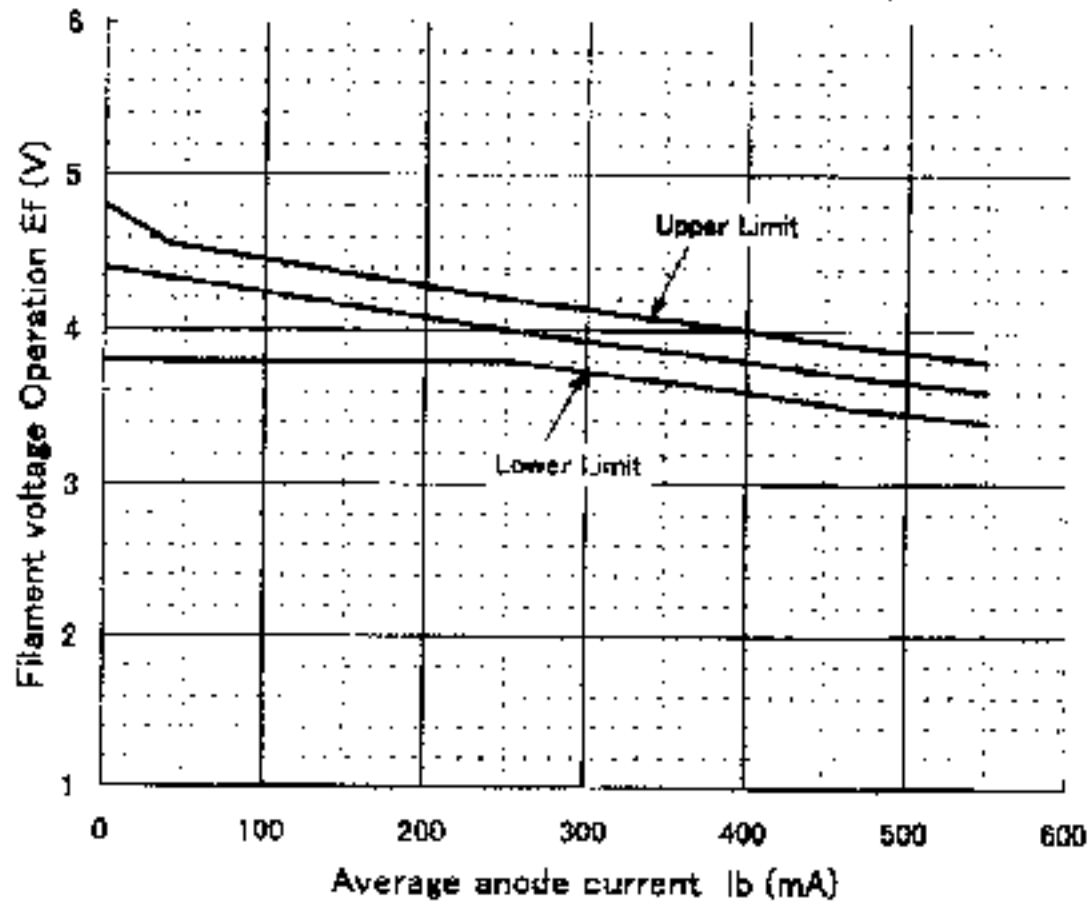
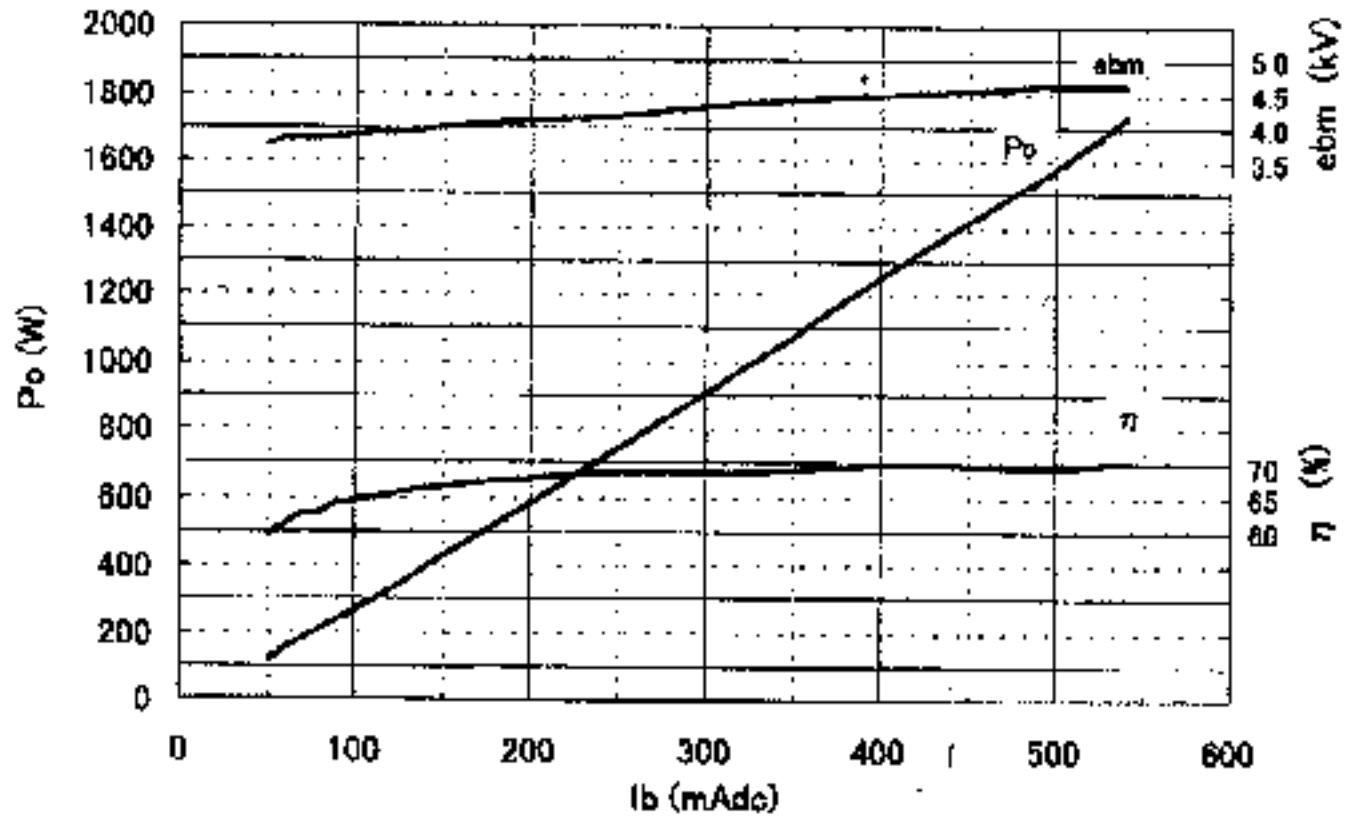


Fig.2 Performance Chart



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OUTLINE DRAWING

Spec No.

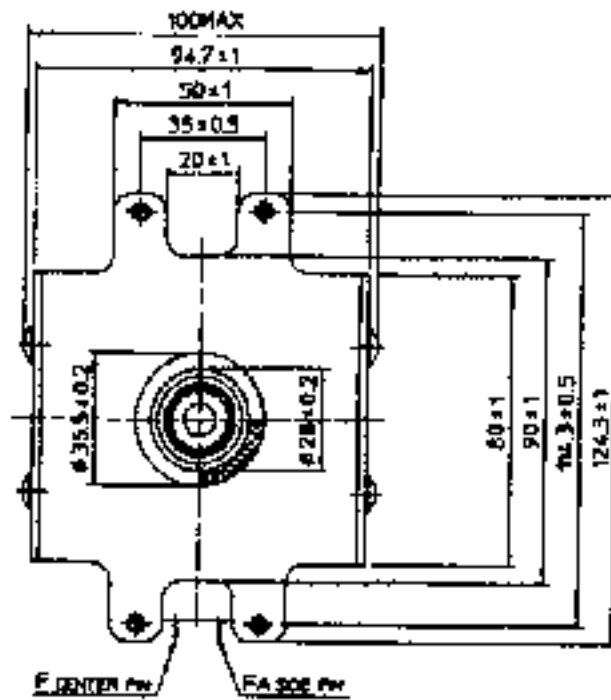
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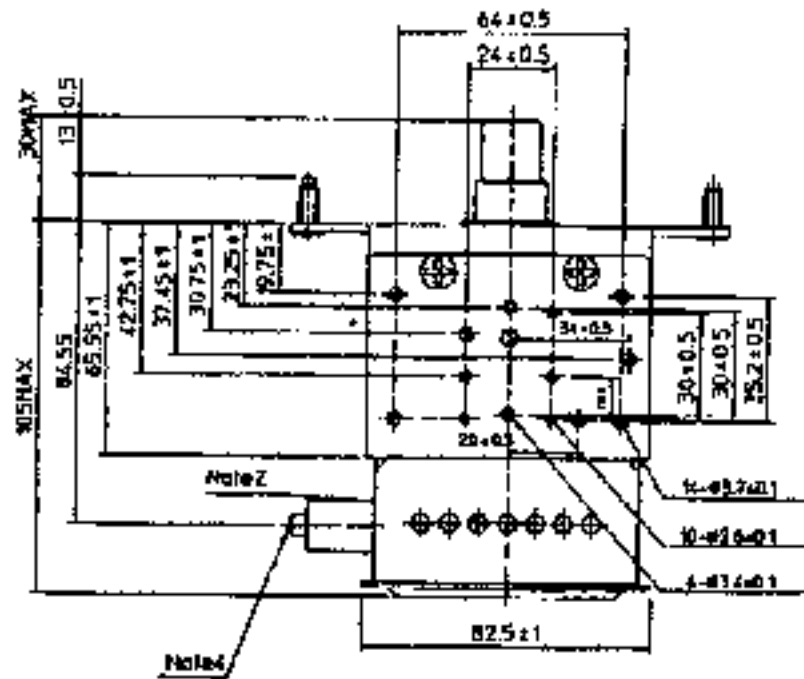
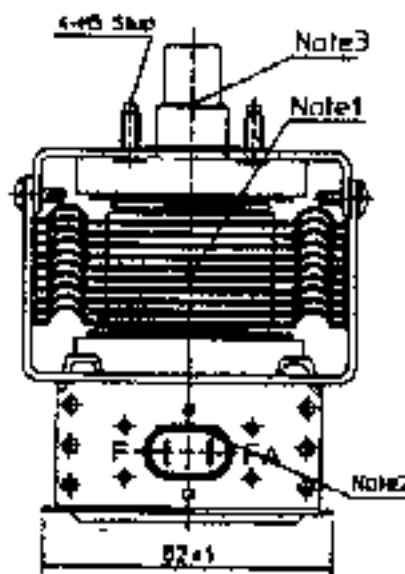
Model No.

2M262-M12



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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