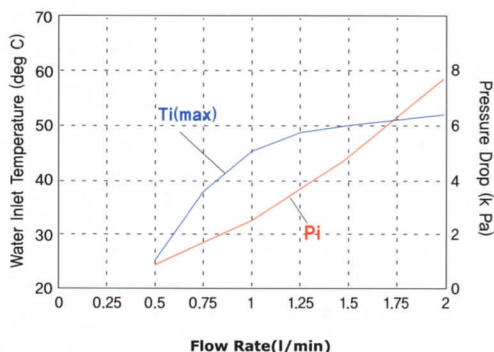


MODEL
2M290 Series
(Tube Type)

FEATURES

- High reliability with entirely ceramic-metal sealing.
- High performance with specially designed refrigerator fin.
- Stable under wide range of load condition.
- High power output.

| Temperature Limits | |
|-------------------------------|---------------|
| Ceramic insulator temperature | Tc 250°C max. |
| Anode core temperature | Tc 80°C max. |



Pressure drop and inlet water temperature versus flow rate

1. General Data

ELECTRICAL CHARACTERISTICS

| | |
|------------------------------|------------------|
| Filament voltage, Stand-by | 4.6Vac |
| Filament voltage, Operation | 3.1Vac |
| Filament Current | 19.5Aac |
| Frequency(with matched load) | 2455MHz |
| Anode potential | Earth |
| Filament potential | (-5kV) |
| Magnet | Ferrite - magnet |

MECHANICAL CHARACTERISTICS

| | |
|-------------------|--------------------------|
| Width | 120mm(4.72inches) max. |
| Length | 128mm(5.04inches) max. |
| Height | 192.5mm(7.58inches) max. |
| Weigh | Approx. 3.0Kg |
| Mounting position | Any |
| Cooling | Water |

2. Absolute Maximum Ratings

ELECTRICAL CHARACTERISTICS

| | Min | Max | Unit |
|-----------------------------|-------------|------|------|
| Filament Voltage, Stand-by | 4.40 | 5.00 | V |
| Filament voltage, Operation | (See Fig.1) | | V |
| Pre - heating Time | 8 | - | Sec |
| Average Anode Current | - | 900 | mAdc |
| Peak anode current | - | 2100 | mAp |
| Average anode input | - | 5000 | W |
| Load VSWR(continuous) | - | 4 | - |
| Anode core temperature | - | 80 | °C |
| Storage temperature | -30 | 60 | °C |

3. Typical Operation

OPERATING CONDITIONS

| | |
|---|-----------|
| Filament voltage, Stand-by | 4.6Vac |
| Filament voltage, Operation | 3.1Vac |
| Average anode current # | 840mAdc |
| Cooling air flow | 2.0m³/min |
| # Power supply unit:Half-wave doubler with leakage transformer or full-wave rectifier without filter. | |

TYPICAL PERFORMANCE

| | |
|------------------------------------|---------|
| Frequency(matched load) | 2455MHz |
| Peak anode voltage | 5.10kVp |
| Average output power(matched load) | 3000W |