



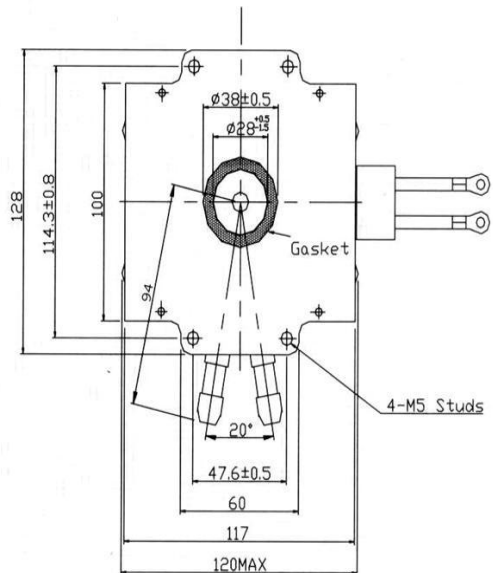
1. General Data

ELECTRICAL CHARACTERISTICS

- Filament voltage, Stand-by ----- 4.6 Vac
- Filament voltage, Operation ---- 3.1 Vac
- Filament current ----- 19.5 Aac
- 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. 4.0Kg
- Mounting position ----- Any
- Cooling ----- Water



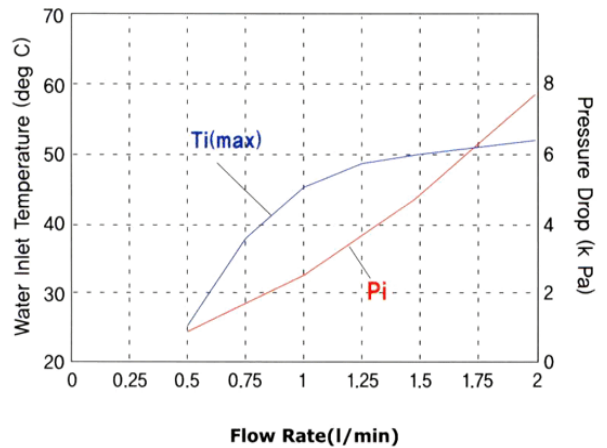
MAGNETRON

2M290 (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.



2. Absolute Maximum Ratings

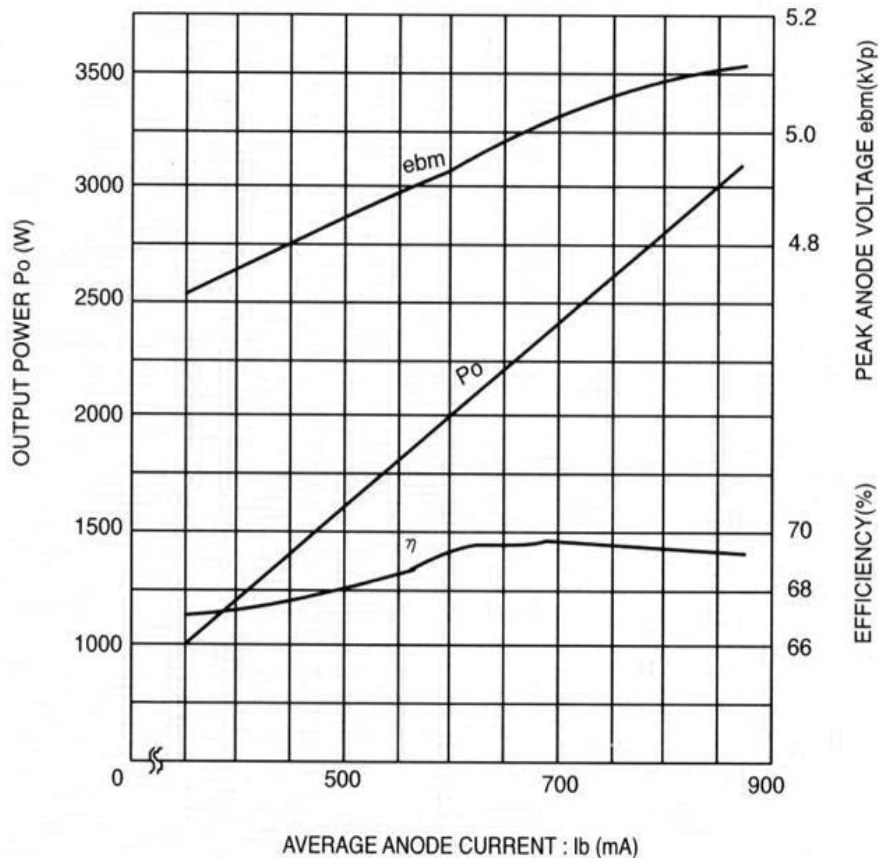
ELECTRICAL CHARACTERISTICS

Performance	Min	Max	Unit
Filament Voltage, Stand-by	4.40	5.00	V
Filament voltage, Operation	(See Fig.1)		V
Pre-heating Time	8.00	-	Sec
Average Anode Current	-	900.00	mAdc
Peak anode current	-	2100.00	mAp
Average anode input	-	5000.00	W
Load VSWR(continuous)	-	4.00	-
Anode core temperature	-	80.00	°C
Storage temperature	-30.00	60.00	°C

3. Typical Operation

OPERATING CONDITIONS

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



OPERATING CONDITIONS:

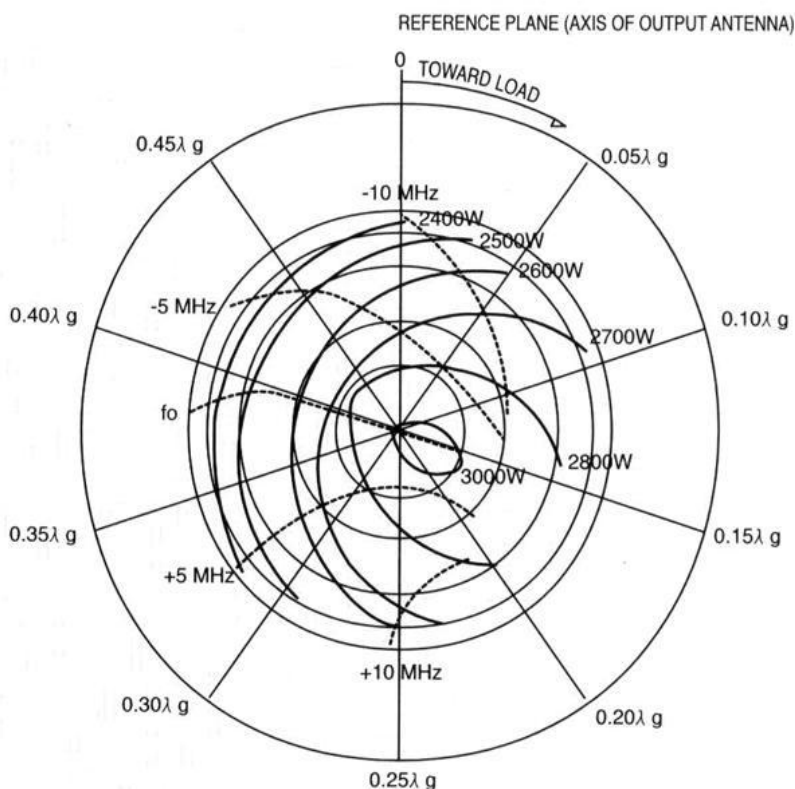
Power supply: single phase full - wave Rectifier without filter.
 Load V.S.W.R: $6L < 1.1$ Filament voltage: 4.6v

TYPICAL PERFORMANCE

Frequency(matched load) ----- 2455MHz

Peak anode voltage ----- 5.10kVp

Average output power(matched load) 3000W



OPERATING CONDITIONS:

Power supply: single phase full - wave Rectifier without filter.

Average anode current 840mA Wave guide: Lg Standard

Lanuncher Output Power(W)

Frequency($f_0=2455\text{Mhz}$)

DIMENSIONAL OUTLINE OF 2M290

