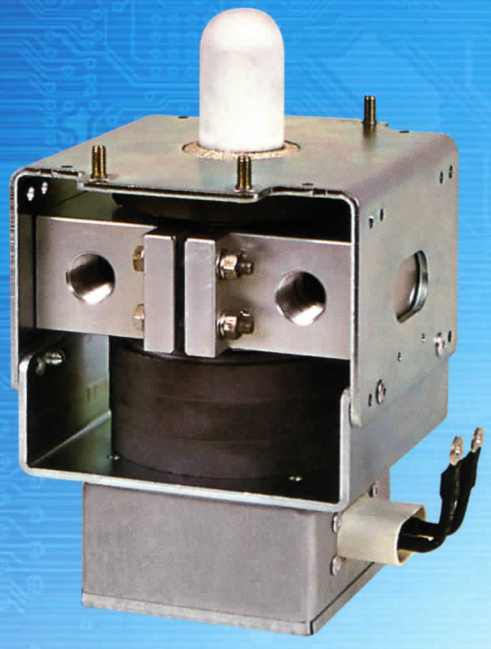


MODEL

2M290 Series

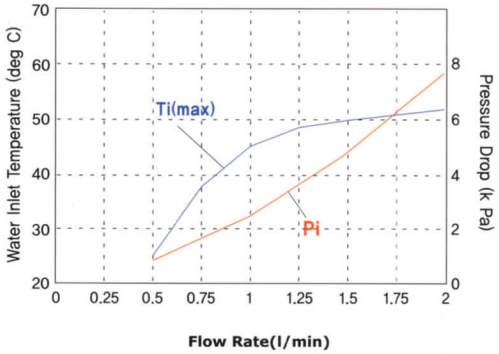
(Jacket Type)

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℃ max.
Anode core temperature	Tc	80℃ 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	℃
Storage temperature	−30	60	℃

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㎥/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