



MODEL  
**2M286 Series**  
 (Inverter Type)

**FEATURES**

- Light-weight, compact, and cost-effective construction.
- Sufficiently suppressed noise spectrum.
- Stable performance and good reliability
- High power output.

**1. General Data**

**ELECTRICAL CHARACTERISTICS**

|                              |                  |
|------------------------------|------------------|
| Filament voltage             | 3.15Vac          |
| Filament current             | 10.0Aac          |
| Frequency(with matched load) | 2460MHz          |
| Anode potential              | Earth            |
| Filament potential           | (-4kV)           |
| Magnet                       | Ferrite - magnet |

**MECHANICAL CHARACTERISTICS**

|                   |                         |
|-------------------|-------------------------|
| Width             | 93.2mm(3.67inches) max. |
| Length            | 127mm(5.00inches) max.  |
| Height            | 133mm(5.24inches) max.  |
| Weigh             | Approx. 0.9Kg           |
| Mounting position | Any                     |
| Cooling           | Forced air              |

**2. Absolute Maximum Ratings**

**ELECTRICAL CHARACTERISTICS**

|                          | Min  | Max  | Unit |
|--------------------------|------|------|------|
| Filament Voltage         | 2.85 | 3.75 | Vac  |
| Pre - heating Time       | 0    | -    | Sec  |
| Average Anode Current    | -    | 380  | mAdc |
| Peak anode current       | -    | 1500 | mAp  |
| Average anode input      | -    | 1700 | W    |
| Load VSWR(continuous)    | -    | 4    | -    |
| Load VSWR(instantaneous) | -    | 8    | -    |
| Anode core temperature   | -    | 300  | °C   |
| Temperature              | -30  | 60   | °C   |

**3. Typical Operation**

**OPERATING CONDITIONS**

|   |                        |
|---|------------------------|
| Filament voltage  | 3.15Vac                |
| Average anode current #   | 330mAdc                |
| Cooling air flow  | 1.0m <sup>3</sup> /min |
| # Power supply unit:Half-wave doubler with leakage transformer or full-wave rectifier without filter. |                        |

**TYPICAL PERFORMANCE**

|   |         |
|---|---------|
| Frequency(matched load)                 | 2460MHz |
| Peak anode voltage                      | 4.40kVp |
| Average output power(matched load)      | 1150W   |
| Average output power(in a typical oven) | 1000W*  |

\*In accordance with IEC Pub. 705 measurement method.