## TOSHIBA Leading Innovation >>>

## **ABSOLUTE MAXIMUM RATING**

|                                   | Minimum | Maximum |      |
|-----------------------------------|---------|---------|------|
| Filament voltage (Note 1)         | 2.70    | 3.60    | V    |
| Cathode preheating time           | 0       | -       | s    |
| Peak anode voltage                | -       | 4.85    | kV   |
| Average anode current             | -       | 380     | mAdc |
| Peak anode current                | -       | 1.5     | А    |
| Anode input power                 | -       | 1.8     | kW   |
| Load VSWR (Note 2)                | -       | 4       |      |
| Anode temperature (Note 3)        | -       | 300     | °C   |
| Antenna seal temperature (Note 4) | -       | 320     | °C   |
| Case temperature (Note 5)         | -       | 100     | °C   |
| Storage temperature               | -30     | 60      | °C   |

The maximum ratings in this table which are interrelated should not be exceeded either individually or in combination under any worst case. Even if the maximum ratings are not exceeded, reduced life can occur as the operating conditions approach to the maximum ratings.

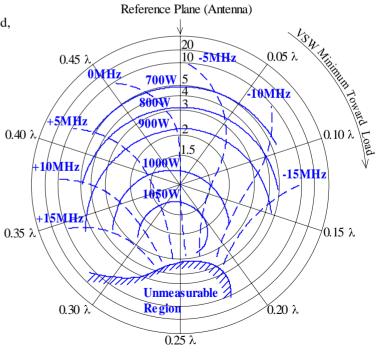
## **TYPICAL OPERATION**

| Power supply  | Single phase full wave rectified without filter |        |  |
|---|---|--------|--|
| Frequency   | 2460  | MHz    |  |
| Filament voltage  | 3.15  | V      |  |
| Peak anode voltage (Note 6)                                   | 4.35  | kV     |  |
| Average anode current   | 330   | mAdc   |  |
| Output power (matched load, Note 6)                           | 1020  | W      |  |
| Output power (typical oven by IEC 7                           | 05) 1000  | W      |  |
| Cooling air flow  | 800   | t /min |  |
| Pressure drop   | Approx. 55                                      | Ра     |  |
| RIEKE DIAGRUM<br>Operating condition: Anode supply: Single pl | nase full wave rectified without filter         |        |  |

| Operating condition: Anode supply: Sing | le phase full wave rectified without filter |
|---|---|
| Filament voltage                        | : 3.15 V                                    |
| Average anode current                   | : 330 mA (constant)                         |
| Peak anode voltage (matched load)       | : 4.35 kV                                   |
| Oscillating frequency (matched load)    | : 2460 MHz                                  |
|   |   |

## 2M248 Series





TOSHIBA HOKUTO ELECTRONICS CORPORATION