

2M253 Series

ABSOLUTE MAXIMUM RATING

	Minimum	Maximum	
Filament voltage (Note 1)	2.85	3.75	V
Cathode preheating time	0	-	s
Peak anode voltage	-	4.5	kV
Average anode current	-	350	mAdc
Peak anode current	-	1.2	A
Anode input power	-	1.4	kW
Load VSWR (Note 2)	-	4	
Anode temperature (Note 3)	-	300	°C
Antenna seal temperature (Note 4)	-	320	°C
Capacitor temperature (Note 5)	-	120	°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	3.3	V
Peak anode voltage (Note 6)	4.0	kV
Average anode current	300	mAdc
Output power (matched load, Note 6)	860	W
Cooling air flow	800	ℓ/min
Pressure drop (Approx.)	70	Pa

RIEKE DIAGRAM

Power supply : Single phase full wave rectified without filter	
Filament voltage	: 3.3 V
Average anode current	: 300 mA (constant)
Peak anode voltage (Matched load)	: 4.0 kV
Oscillating frequency (matched load)	: 2460 MHz

