

# MAGNETRON SPECIFICATION

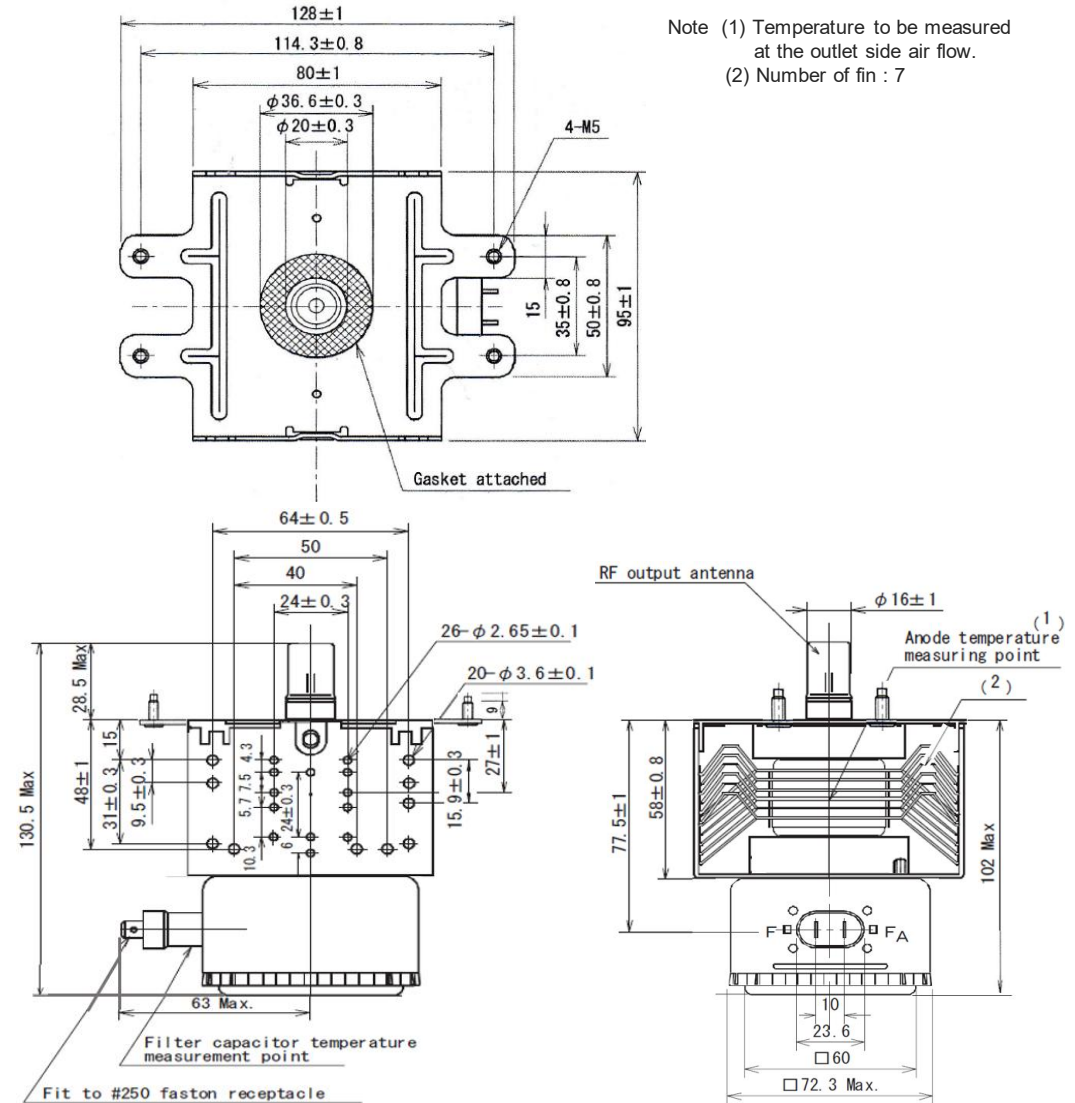
2M248H

This specification is based on the testing methods for continuous wave magnetrons ED-1501 set by the Electronic Industries Association of Japan (EIAJ).

CONTINUOUS WAVE MAGNETRON												
DESCRIPTION	Magnetron (Fixed Frequency, Integral Magnet, Forced Air Cooled)											
FUNCTION	2450 MHz band continuous wave oscillation											
OUTER DIMENSIONS	See outline drawing											
ABSOLUTE MAXIMUM RATING	Term	Ef	tk	ebm	lb	ibm	Pi	$\sigma$ L	Tp	Tcon	Tstorage	Tseal
	Unit	V	s	kV	mAdc	A	kW	-	°C	°C	°C	°C
	Max	3.60	-	4.85	380	1.5	1.7	4	300	120	60	320
	Min	2.70	0	-	-	-	-	-	-	-	-30	-
STANDARD TEST CONDITION: (1)(2)(3)	3.15	5		330				1.1Max				

TEST SPECIFICATIONS							
TEST TERM ( 6 )	TEST METHOD (EIAJ ED-1501)	TEST CONDITION	SYMBOL	NOMINAL	Limit		Unit
					Min	Max	
Vibration	5.4.1		-	-	-	-	-
Breakdown Voltage	4.2	Et=10kVdc ( 11 )	-	-	-	-	-
Insulation	-	Et=1kVdc ( 7 )	-	-	-	-	-
Cold Start Voltage Transient	-	(8)	-	-	-	10	kV
Filament Current	4.1.1	tK=120s	If	10.0	8.0	12.0	A
Peak Anode Voltage	4.3.1	(9)	ebm	4.35	4.15	4.55	kV
Average Output power (1)	4.3.3.1	(9)	Po	1030	980	1080	W
Frequency	4.3.4	(9)	f	2460	2450	2470	MHz
Stability/Moding	4.3.11.2	$\sigma$ L=2,3,4	-	-	-	-	-
Stability/Runaway	4.3.11.1	$\sigma$ L=6, t=30s	-	-	-	-	-
Pulling Factor	4.3.6	$\sigma$ L=2	fpl	-	-	27	MHz
Sink Phase	4.3.7	$\sigma$ L=2	$\lambda$ sink/ $\lambda$ g	0.25	-	-	-
Power Leakage	4.3.15	$\sigma$ L=3	Sl	-	-	10	W/m <sup>2</sup>
Life Test	4.5.1		-	-	500	-	h
Average Output at Ended Life Test	4.3.3.1	(9)	-	-	780	-	W

## OUTLINE DRAWING



Note (1) Temperature to be measured at the outlet side air flow.  
 (2) Number of fin : 7