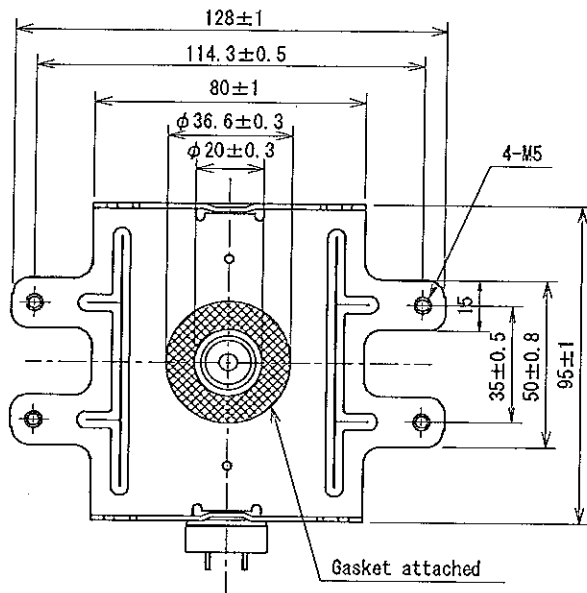


This specification is based on the testing methods for continuous wave magnetrons ED-1501 set by the Electronic Industries Association of Japan (EIAJ).

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				^(2)		^(10)			^(3)	^(4)	^(5)	
	Term	Ef	tk	ebm	lb	ibm	Pi	σ_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)	-	-	-	8.5	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				
* Average Output Power (²)		4.3.3.2	$\sigma_L=4$, Power Min (⁹)	Po	-	550	-	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	-	-	25	MHz				
* Sink Phase		4.3.7	$\sigma_L=2$	$\lambda_{\text{sink}} / \lambda_g$	0.245	-	-	-				
Power Leakage		4.3.15	$\sigma_L=3$	S ₁	-	-	10	W/m ²				
** Life Test		4.5.1	(¹²)	t	-	500	-	h				
** Life Test End Point	Average output power (1)	4.3.3.1	(⁹)	Po	-	790	-	W				
	Stability/ Moding	4.3.11.2	$\sigma_L=2,3,4$	-	-	-	-	-				
	Stability/ Runaway	4.3.11.1	$\sigma_L=6$, t=30s	-	-	-	-	-				

OUTLINE DRAWING

Unit : mm



- Note
- (¹) Temperature to be measured at the outlet side air flow.
 - (²) Refer filament connection.
 - (³) "F" and "FA" are marked at these positions.

