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

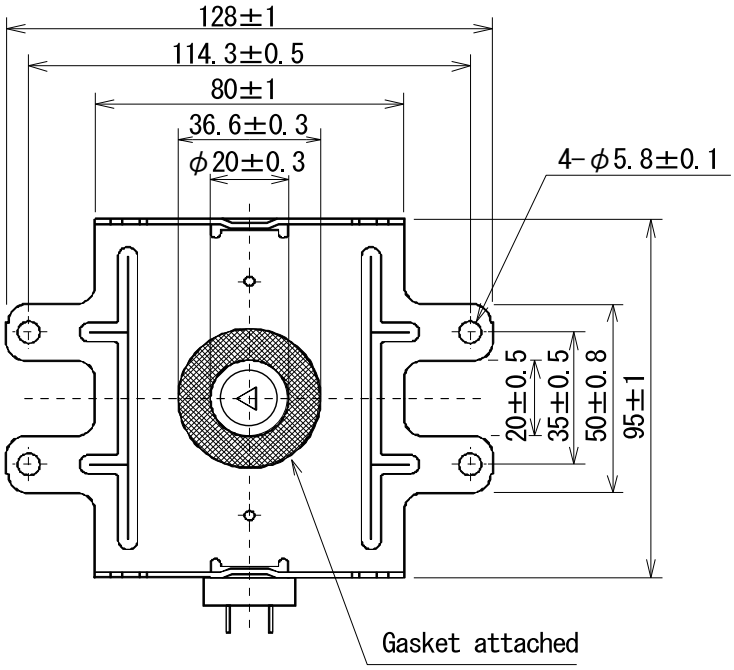
Continuous Wave Magnetron												
DESCRIPTION	Magnetron (Fixed Frequency, Integral Magnet, Forced Air Cooled)											
FUNCTION	2450 MHz band continuous wave oscillation											
OUTER DIMENSIONS	See outline drawing											
ABSOLUTE MAXIMUM RATING				([2])		([10])			([3])	([4])		([5])
	Term	Ef	tk	ebm	Ib	ibm	Pi	σL	Tp	Tcon	Tstorage	Tant
	Unit	V	s	kV	mAdc	A	kW	-	℃	℃	℃	℃
	Max	3.30	-	4.85	400	1.5	1.86	4	300	120	60	360
	Min	2.55	0	-	-	-	-	-	-	-	-30	
STANDARD TEST CONDITION: ([1])([2])([3])		3	5	-	390	-	-	1.1Max	-	-	-	-

TEST SPECIFICATIONS

TEST TERM ([6])			TEST METHOD (old 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	9.5	7.5	11.5	A
	Peak Anode Voltage		4.3.1	([9])	ebm	4.65	4.45	4.85	kV
	Average Output Power ([1])		4.3.3.1	([9])	Po	1300	1200	1400	W
*	Average Output Power ([2])		4.3.3.2	σL=4, Power Min ([9])	Po	-	680	-	W
	Frequency		4.3.4	([9])	f	2460	2450	2470	MHz
*	Stability/Moding		4.3.11.2	σL=2,3,4	-	-	-	-	-
*	Stability/Runaway		4.3.11.1	σL=6, t=30s	-	-	-	-	-
*	Pulling Factor		4.3.6	σL=2	fpl	-	-	27	MHz
*	Sink Phase		4.3.7	σL=2	λsink /λg	0.25	-	-	-
	Power Leakage		4.3.15	σL=3	S_l	-	-	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	-	960	-	W
		Stability/ Moding	4.3.11.2	σL=2,3,4	-	-	-	-	-
		Stability/ Runaway	4.3.11.1	σL=6, t=30s	-	-	-	-	-

OUTLINE DRAWING

Unit : mm



Note (1) Temperature to be measured at the outlet side air flow.
(2) Radiator number : 7 pcs.
(3) Ceramic colors are as follows. Pink, Violet, White
(4) Capacitor types are as follows.