Product Specification	Spec No.		Page	1/10
	Model No.	5.8GHz(Water Cooling)		

This Specifications is based on the General Rules of Inspection for Electron Tubes ED-1101 and the Testing Methods for Continuous Wave Magnetrons ED-1501 set by the Electronic Industries Association of Japan (EIAJ).

Absolute Maximum Rating

Description		Continuous Wave Magnetron (Fixed Frequency, Packaged Magnet and Probe Output)										
Outline		See the Outline Drawing			Net Weight			Approximately 1.5 kg				
Absolute Maximum Rating	Item	Ef Stand-by	Ef Operation	tk	ebm	Ib	ibm	Pi	σ_L ⑨	Ta⑤	Tp③	Tc③	storage
	Unit	V	V	s	kV	mAdc	A	kW	-	℃	℃	℃	℃
	Max.	3.8	②	-	5.00	300	1.2	1.3	2.0	240	100	120④	60
	Min.	2.8	②	0	-	-	-	-	-	-	-	-	-30
Standard Test Condition①		3.3	0	3	-	250	-	-	1.1 MAX	-	-	-	-

Test Specification

Test Item⑩		Test Method ED-1501	Test Condition①	Symbol	Nominal	Limit		Unit
						Min.	Max.	
*Filament Current		4.1.1	tk=120	If	9.2	8.5	10.5	A
Peak Anode Voltage		4.3.1	⑥	ebm	4.55	4.35	4.75	kV
Average Output Power (1)		4.3.3.1	⑥	Po(1)	750	700	-	W
Frequency		4.3.4	⑥	f	5800	5785	5815	MHz
*Load Characteristics	Pulling Factor	4.3.6	σ_L=1.5	fpl	-	-	20	MHz
	Sink Phase	4.3.7	σ_L=1.5	λ_{sink}/λ_g	0.23	-	-	-
*Stability Moding (1)		4.3.11.2	σ_L=2, t=60s	ST	No Moding			-
Emission Moding (2)		4.3.11.3	Ef=0, t≦5s	Efm	No Moding			-
*Power Leakage		4.3.15	σ_L=2	Sl	-	-	10	W/m^2
*Surge Voltage		-	⑦	-	-	-	10	kV
Insulation		4.2	1kVdc	Rpf	-	1000	-	MΩ
Breakdown Voltage		4.2	7.1kVac or 10kVdc,t=60s	V_{BV}	No Abnormality⑧			-
**Vibration		5.4	-	-	No Abnormality			-

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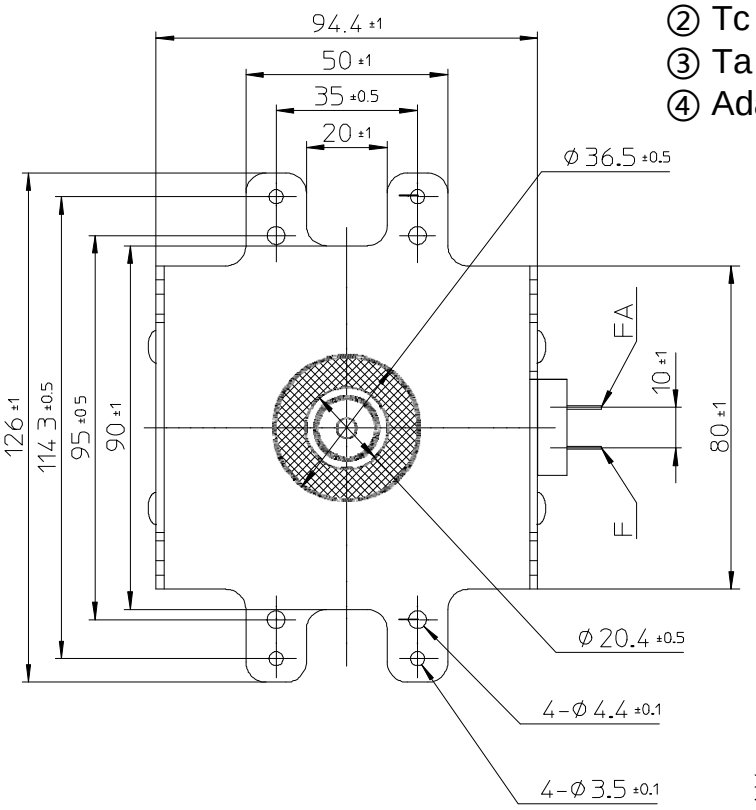
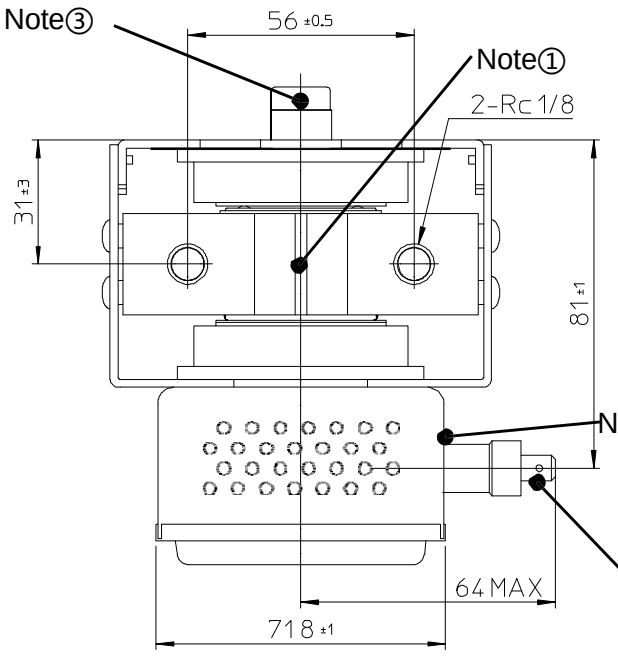
Outline Drawing	Spec No.		Page	7/10
	Model No.	5.8GHz(Water Cooling)		

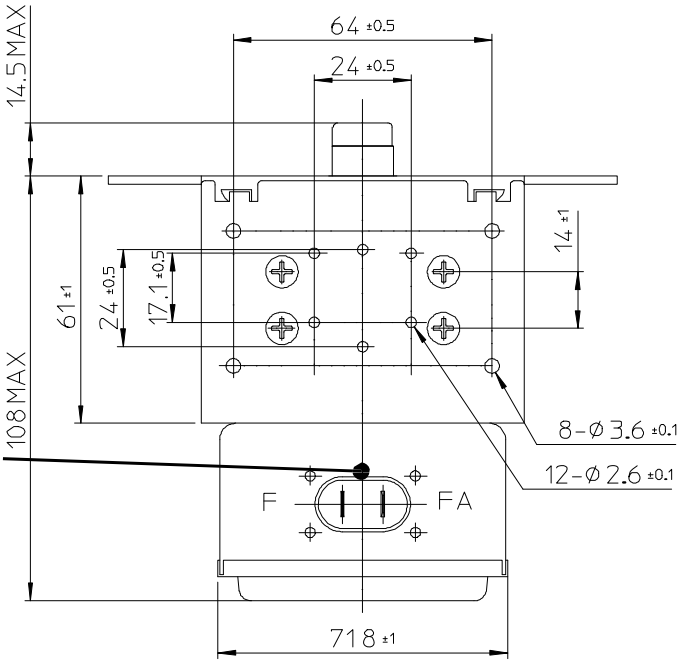
Unit : mm

Note

① Tp measurement point
To be measured at the outlet side of air flow.
② Tc measurement point
③ Ta measurement point
④ Adaptable for #250 faston receptacle.







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