

TEST SPECIFICATIONS

Type : 2M130

Description : Continuous Wave Magnetron, 2450MHz, Fixed Frequency.

Absolute Maximum Ratings :

Item	Symbol	Min.	Max.	Unit	Note
Filament Surge Current	-	-	100	Aac	
Filament Voltage,Stand-by	Ef	4.40	5.00	Vac	
Filament Voltage,Operation	Ef	(See Fig.1)		Vac	1,2
Pre-heating Time	Tk	5	-	sec	1,3
Peak Anode Voltage.	ebm	-	4.3	KVp	1
Peak Anode Current	ibm	-	2.1	Ap	1
Average Anode Current	Ib	-	750	mAdc	1
Average Anode Input	Pi	-	2.6	KW	1
Load VSWR	σL	-	4	-	1,7
Anode Core Temperature	Tp	-	180	°C	
Case Temperature	Tcase	-	120	°C	
Storage Temperature	-	-30	60	°C	

Test conditions for electrical characteristics :

Filament Voltage	Ef = 4.6 V (Stand-by), Ef = 3.9 V (operation)
Average Anode Current	Ib = 725 mAdc
Load VSWR	σL = 1.1 or less
Cooling Air Flow	Q = 1.5 m ³ /min (35 CFM) or greater

Limits and characteristics :

Item	Conditions	Symbol	Bogie	Min.	Max.	Unit	Note
Filament Current,Stand-by	tk=120secMin.	If	20	18.5	21.5	Aac	1,4,5
Peak Anode Voltage		ebm	4.00	3.85	4.20	kVp	1,4,5,10
Average Power Output		Po	1950	1750	-	W	1,4,5,10
Frequency		fo	2455	2440	2470	MHz	1,4,5,10
Stability	$\sigma L=3$ or less	ST	-	700	-	mAdc	1,4,5,6,8
Breakdown Voltage		Et	-	10	-	kVdc	9

DIMENSIONAL OUTLINE OF 2M130

Dimensions in millimeters

