NATIONAL

NL10250-18

Description: Continuous wave magnetron, 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	-	3.1	Kw	1
Load VSWR	σL	-	4	-	1,5
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 = 3.4 V (operation)
Average Anode Current	Ib = 725 mAdc
Load VSWR	σL = 1.1 or less
Cooling Air Flow	Q = 1.5m^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,
Peak Anode Voltage		ebm	4.00	3.85	4.20	kVp	1,8
Average Power Output		Po	1950	1750	-	W	1,8
Frequency		fo	2455	2440	2470	MHz	1,8
Stability	σ L=3 or less	ST	-	700	-	mAdc	1,4,6
Breakdown Voltage		Et	-	10	-	kVdc	7

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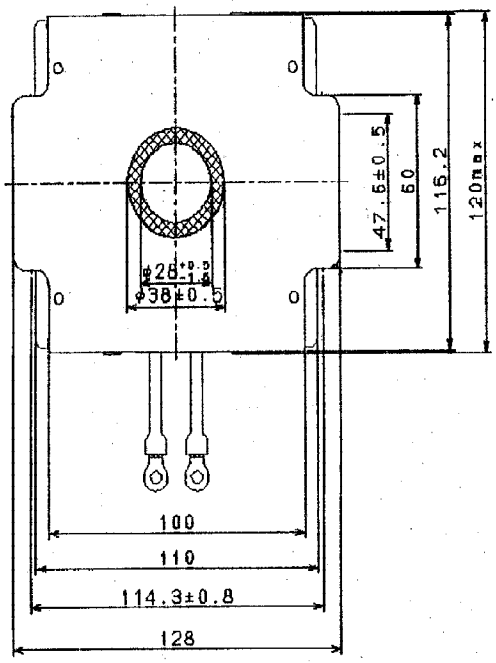
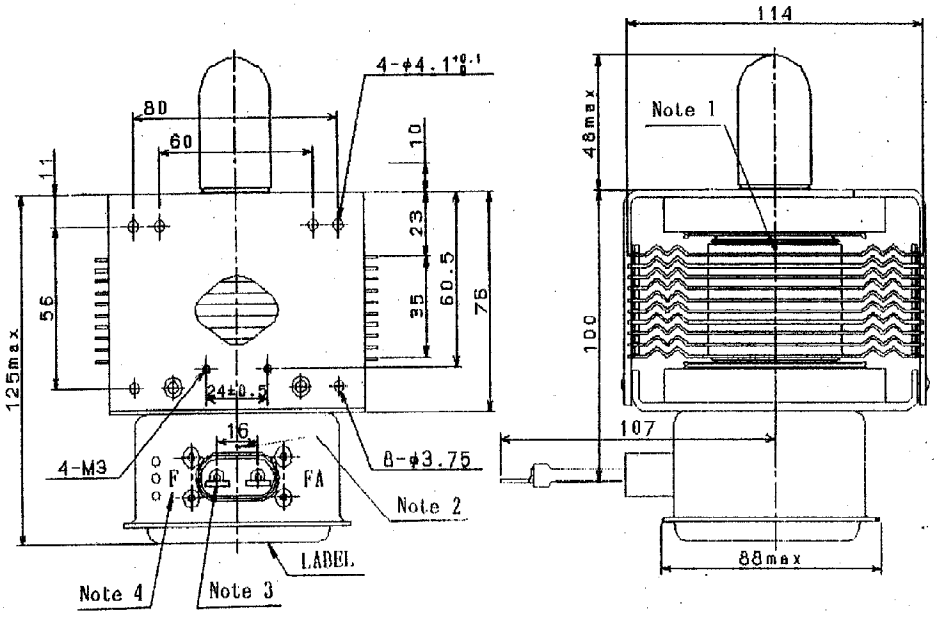
Dimensions in millimeters





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