Released

X-band Magnetron Model No. MAF1562R

NSSHNBO

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Nisshinbo Micro Devices Inc.	Datasheet of MAF1562R			
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GENERAL DESCRIPTION

MAF1562R is designed for the magnetron of X-band radar system. The frequency range is fixed <9380 - 9440MHz> and the peak output power is 6kW.

LV9 Technology **1**



ELECTRICAL CHARACTERISTICS

PARAMETERS		MINIMUM	TYPICAL	MAXIMUM	UNITS
Heater voltage	(note 1)	6.0	6.3	6.6	V
Heater current		0.5	0.55	0.6	А
Preheat time		65	-	-	S
Peak anode voltage	(note 2)	4.4	4.5	4.8	kV
Peak output power	(note 2)	6.0	6.5	-	kW
Frequency	(note 2)	9380	9410	9440	MHz

ABSOLUTE MAXIMUM RATINGS

These ratings cannot necessarily be used simultaneously and no individual ratings should be exceeded.

PARAMETERS		MINIMUM	MAXIMUM	UNITS
Peak anode current	(note 3)	3.6	5.4	А
Average anode power input		-	25	W
Duty cycle		-	0.001	-
Pulse duration		0.07	1.25	μs
Rate of rise of voltage pulse		-	70	kV/µs
Anode temperature		-	100	°C
VSWR at the output coupler		-	1.5 : 1	-

Notes

- 1. With no anode input power. No reduction of heater voltage at operating is required.
- 2. Measured at peak anode current 4.5A.
- 3. Any overshoot of the anode current is not acceptable. The impedance of this magnetron is the same as current magnetron excluding the transient impedance. This means that the additional reactance should be required for adjustment the anode current wave form, if this magnetron will be installed into the similar modulator circuit as before.

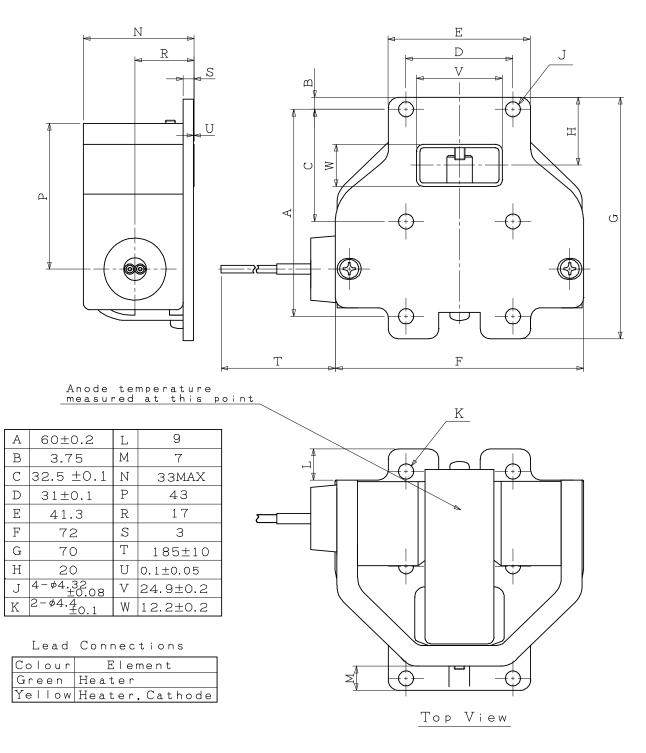
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OUTLINE



(Dimensions are expressed in "mm".)

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