Date				
Jan. 16, 2019	Released			
S b	and Magnetron			
<u>Mo</u>	del No. M1623			
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	Title:			
New Japan Radio Co., Ltd. Microwave Division	Datasheet of M1623Reference No.:Rev.:Sheet:			
	DS-M1623 08E 1/3			

■ GENERAL DESCRIPTION

M1623 is designed for the magnetron of S band radar system. The frequency range is fixed <3040 \sim 3060MHz> and the peak output power is 30kW.



■ ELECTRICAL CHARACTERISTICS

PARAMETERS		MINIMUM	TYPICAL	MAXIMUM	UNITS
Heater voltage	(note 1)	5.7	6.3	6.9	V
Heater current		1.1	1.3	1.4	А
Preheat time		180	-	-	S
Peak anode voltage	(note 2)	7.2	8.0	8.5	kV
Peak output power	(note 2)	25	30	-	kW
Frequency	(note 2)	3040	3043	3060	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	6.0	12.0	А
Peak anode power input	-	100	kW
Duty cycle	-	0.001	-
Pulse duration	0.07	1.0	μs
Rate of rise of voltage pulse	-	130	kV/µs
Anode temperature	-	120	°C
VSWR at the output coupler	-	1.5 : 1	-

Notes

1. With no anode input power. For average pulse input powers greater than 25 watts, the heater voltage must be reduced within 3 seconds after the application of h.t. according to the following schedule:

* Above Specifications are subject to change without notice.

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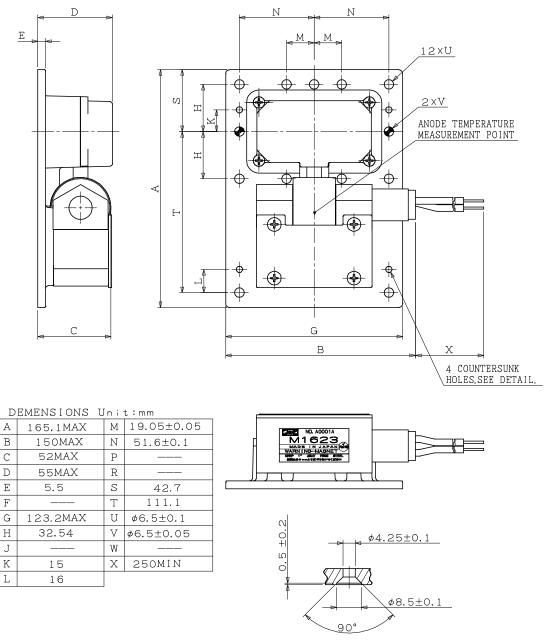
Mean input power(W)	Heater Voltage(V)
Less than 25	6.3
25 to 62	5.3
62 to 100	4.5

Mean input power (Pi) = Anode current ×Anode voltage ×Duty cycle (W)

2. Measured at peak anode current 8.0A.

OUTLINE

(All Dimensions without limits are nominal.)



DETAIL OF COUNTERSUNK HOLES

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