



## Released

# S-band Magnetron Model No. M1555

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## **■** GENERAL DESCRIPTION

M1555 is designed for the magnetron of S-band radar system. The frequency range is fixed <3040 - 3060MHz> and the peak output power is 30kW.

## **LV9** Technology 1



### **■ 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	Α
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	Α
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	℃
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:

<sup>\*</sup>Above Specifications are subject to change without notice.



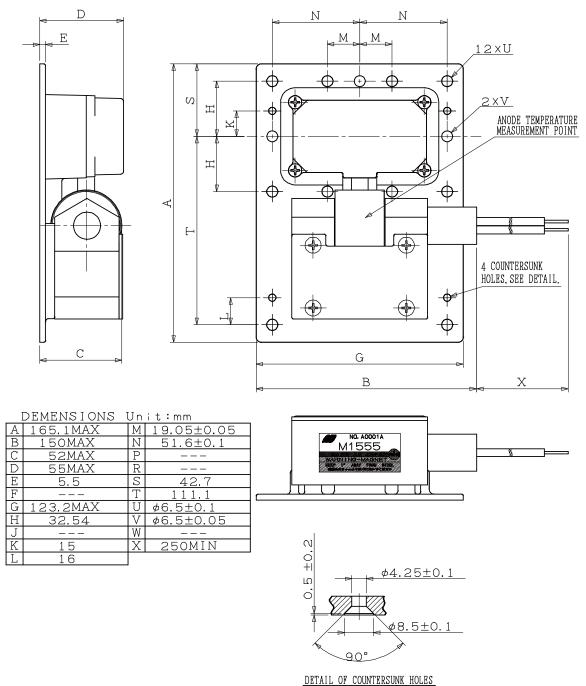
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Mean input power(W)	Heater Voltage(V)	
Less than 25	6.3	
25 to 62	5.3	
62 to 100	4.5	

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

2. Measured at peak anode current 8.0A.

### ■ OUTLINE



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