Date							
Jun. 08, 2018			Released				
X band Magnetron							
	X band hagned on						
Model No. M1568BS							
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Microwave		Reference No.:	Rev.: Sheet:				
		DS-M1568BS	08E 1/3				

GENERAL DESCRIPTION

M1568BS is designed for the magnetron of X band radar system. The frequency range is fixed $<9380 \sim 9440$ MHz> and the peak output power is 25kW.

LV9 Technology **1**



PARAMETERS Minimum Typical Maximum Unit Heater voltage (note 1) 6.0 6.3 6.6 V Heater current 0.43 0.52 0.6 А _ Preheat time 120 s Peak anode voltage (note 2) 7.2 8.0 kV 8.5 _ 22.5 25.0 kW Peak output power (note 2) Frequency (note 2) 9380 9410 9440 MHz

ELECTRICAL CHARACTERISTICS

ABSOLUTE MAXIMUM RATINGS

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

PARAMETERS	Minimum	Maximum	Unit	
Peak anode current	(note 3)	6.0	10.0	А
Peak anode power input		-	75	kW
Duty cycle		-	0.001	-
Pulse duration		0.05	1.2	μs
Rate of rise of voltage pulse		-	100	kV/µs
Anode temperature		-	110	°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:

Heater Voltage: $Ef = 6.3 \sqrt{1 - \frac{Pi}{100}} [V]$

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

2. Measured at peak anode current 8.0A.

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Reference No.:Rev.:Sheet:DS-M1568BS08E2

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.

OUTLINE



(Dimensions are expressed in "mm".)

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