

X-Band Magnetron

M1439 is designed for the magnetron of X-band radar system.

The frequency range is fixed between 9.415GHz and 9.475GHz. The peak output power is 1.0kW.

---- MAXIMUM RATINGS ----

	Min	Max	Unit
Peak anode current	1.5	3.0	A
Peak anode power input	-	6.0	kW
Duty cycle	-	0.001	-
Pulse duration	0.05	1.0	us
Rate of rise of voltage pulse	-	50	kV/us
Anode temperature	-	100	°C
V.S.W.R. at the output coupler	-	1.5:1	-

---- ELECTRICAL ----

	Min	Typical	Max	Unit
Heater voltage(Note 1)	4.5	5.0	5.5	V
Preheat time	60	-	-	S
Peak anode voltage (Note 2)	1.78	1.8	2.0	kV
Peak output power (Note 2)	1.0	1.1	-	kW
Frequency (Note2)	9.415	9.445	9.475	GHz

Note:

1. Measured with heater voltage of 5.0V and no anode input power, the heater current limits are 0.4A minimum, 0.5A maximum. No reduction of heater voltage is required.
2. Measured at peak anode current 2.0A.

For further information on the use of the magnetron, Please contact New JRC. New JRC reserves the right to change the specification of goods without notice.

OUTLINE

Note: Dimensions are in mm

M1439

Lead Connections

Colour	Element
Green	Heater
Yellow	Heater, Cathode

A	50 ± 0.8
B	70 ± 0.8
C	40 ± 0.8
D	75 ± 0.8
E	42max
F	15.5 ± 0.1
G	30 ± 0.1
H	$\phi 4.3^{+0.1}_0$
I	260 ± 10
J	10 ± 0.8

