



M1430

S-Band Magnetron

M1430 is a fixed frequency pulsed type S-band magnetron, designed to operate in the frequency range of 3040 to 3060 MHz with a peak output power of 8 kW, It is packaged and coaxial output type and natural or forced air cooled.

----- MAXIMUM RATINGS -----

	Min	Max	Unit
Peak anode current	2.0	5.5	A
Perk anode power input	-	31	kW
Duty cycle	-	0.001	-
Pulse duration	-	1.5	µs
Rate of rise of voltage pulse	-	50	kV/µs
Anode temperature	-	120	°C
V.S.W.R at the output coupler	-	1.5:1	-

----- ELECTRICAL -----

	Min	Typical	Max	Unit
Heater voltage (Note 1)	5.7	6.3	6.9	V
Preheat time	120	-	-	S
Peak anode voltage (Note 2)	5.3	5.9	6.2	kV
Peak output power (Note 2)	8	-	-	kW
Frequency (Note 2)	3040	-	3060	MHz

Note 1: Measured with heater voltage of 6.3V and no anode input power, the heater current limits are 1.0A minimum, 1.3A maximum.
No reduction of heater voltage is required.

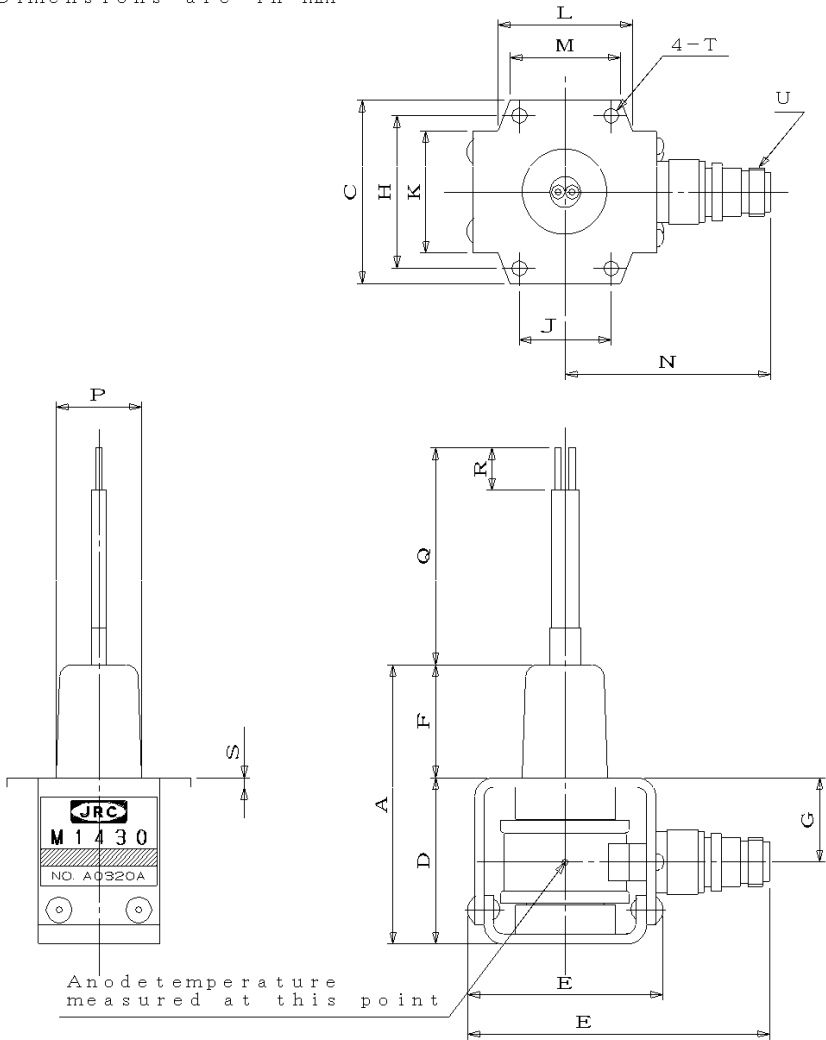
Note 2: Measured at peak anode current 4.5A



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OUTLINE

Note: Dimensions are in mm



Lead Connections

Colour	Element
Green	Heater
Yellow	Heater, Cathode

A	100max
B	103max
C	62max
D	60max
E	70max
F	40max
G	27.2±2
H	50±0.2
J	30±0.2
K	40

L	44
M	36
N	68±2
P	30max
Q	160±10
R	14±3
S	3.2
T	5.45±0.15
U	Type N Female