

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.

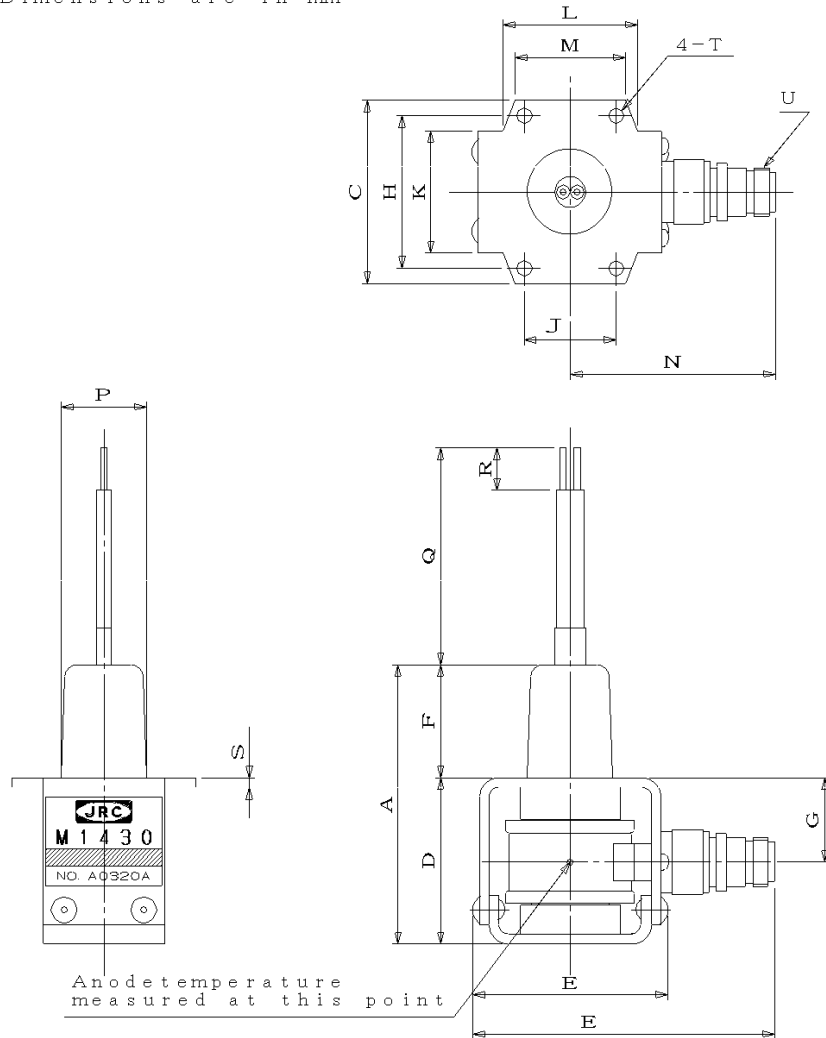
Note 2: Measured at peak anode current 4.5A



M1430

OUTLINE

Note: Dimensions are in mm



Lead Connections

| Colour | Element |
|--------|-----------------|
| Green | Heater |
| Yellow | Heater, Cathode |

| | | | |
|---|--------|---|---------------|
| A | 100max | L | 44 |
| B | 103max | M | 36 |
| C | 62max | N | 68±2 |
| D | 60max | P | 30max |
| E | 70max | Q | 160±10 |
| F | 40max | R | 14±3 |
| G | 27.2±2 | S | 3.2 |
| H | 50±0.2 | T | 5.45±0.15 |
| J | 30±0.2 | U | Type N Female |
| K | 40 | | |