

2J38 S-Band Pulsed Magnetron



2J38 and [2J39](#) were fixed-frequency pulsed magnetron designed to operate at peak output power ranging from 2.5 to 10 kw. Eight-vane anode resonator. Oxide coated indirectly heated cathode. 2J38 has a larger radiator and mounting clip for an add-on safety thermostat. 2J39 has a round mounting flange at the base of cathode feed-through stems.

Fixed frequency, 3300 MHz. Integral magnet, coaxial output. Heater 6.3V, 1.25A.

8.7 kw typical output with 5.4 kv and 5 A input pulses or 12 W average at 5 A and 0.002 duty.

Registered to Raytheon in October 1945. Data available in the [RMA 445](#) record.

More information on magnetrons can be found in the article [‘Magnetron Tubes’](#) edited by Emilio Ciardiello.



- Comparative images of 2J38 and 2J39.

Both 2J38 and 2J39 use an 8-vane anode resonator system with an unusual octal wire strap, as in the draft below.

