

ELECTRONIC TUBE REFERENCE

7449

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Rugged integral-magnet pulsed magnetron operating approximately 23.7-24.3 GHz, producing at least 45 kW peak output for millimeter-wave service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 2.9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded.
Published electrical section from 7449.pdf; identical repeated sections compressed when applicable.

Integral-magnet pulsed microwave oscillator operating at 23.7-24.3 GHz with at least 45 kW peak output, forced-air cooling, and high shock/vibration capability.



SOURCE OPERATING CONDITIONS

SOURCE PDF

1938 Raytheon

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RAYTHEON
Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulse DURATION scsssececcssssssssasosssssessas 0.02 to	0.09 μs	Pulse DURATION scsssececcssssssssasosssssessas 0.02 to 0.09 usec
Peak Anode Current ceveeesessasosasscsoss	15 A	Peak Anode Current ceveeesessasosasscsoss 15 Amps