

ELECTRONIC TUBE REFERENCE

7156

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Integral-magnet mechanically tunable pulsed magnetron for approximately 5.45–5.825 GHz radar service, producing at least about 250 kW peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 4.9 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 7156.pdf; identical repeated sections compressed when applicable.

Integral-magnet mechanically tunable pulsed magnetron for 5450-5825 MHz radar service, rated for at least 250 kW peak output and requiring forced-air cooling.



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
Duty cycle00l Peak anode voltage	245 kV	Duty cycle00l Peak anode voltage . . 245kv
heater voltage should be reduced to	0 V	heater voltage should be reduced to 0.0 volts. For
to keep heater current surges below	30 A	to keep heater current surges below 30 amps.
Surges in excess of	30 A	Surges in excess of 30 amps may open circuit the 20 '1-7
RK7156 MAGNETRON	5825 MHz	RK7156 MAGNETRON 5825 Mc-LI/I VSWR RK 7156 MAGNETRON 5450 Mc-Li/1 VSWR
FIG % LOAD GIAGREN OF TYPICAL 0{ T{36 MAGNETRON	5700 MHz	FIG % LOAD GIAGREN OF TYPICAL 0{ T{36 MAGNETRON- 5700 Mc
quency of	5650 MHz	quency of 5650 Mc, they do not change signifi- tions, Raytheon Mig. Company.

TUBE TINKER

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