



ELECTRONIC TUBE REFERENCE

7452

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Integral-magnet fixed-frequency pulsed magnetron operating approximately 15.84-16.16 GHz with at least 70 kW peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4.8 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron

No fixed ratings recorded.

Published electrical section from 7452.pdf; identical repeated sections compressed when applicable.

Integral-magnet fixed-frequency pulsed oscillator for 15.84-16.16 GHz service, rated for at least 70 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
of 15,840 - 16,	160 MHz	of 15,840 - 16, 160 megacycles, with a minimum
Heater Voltage - Preheat/180 S€C ,....cecocoseeso	48 V	Heater Voltage - Preheat/180 S€C ,....cecocoseeso. 48 Volts
Heater Current at	4.8 V	Heater Current at 4,8 Volts ., ...ucevuocovscosseanooes 10.8 - 13,2 Amperes
Pulse Duration ...cee s © 0 ® 0 @DOS®000S 0G0 0CG000RNESOSDRDSQ	0.25 µs	Pulse Duration ...cee s © 0 ® 0 @DOS®000S 0G0 0CG000RNESOSDRDSQ 0.25 usec
Average Power Outputccce. tecsesssssceasos	150 W	Average Power Outputccce. tecsesssssceasos 150 Watts (Min,)

TUBE TINKER

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