

ELECTRONIC TUBE REFERENCE

6344

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Mechanically tunable pulsed magnetron covering approximately 5.45–5.825 GHz with at least 175 kW peak RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	11 V / 11 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	24000 V
MAXIMUM CATHODE CURRENT	30 A
Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.	

Mechanically tunable pulsed magnetron covering 5.45 to 5.825 GHz with at least 175 kW peak RF output and 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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	11 V	Published nominal or representative value
Heater or filament current	11 A	Published nominal or representative value
Frequency range	5450–5825 MHz	Published operating or tuning range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF power output	175000 W	Published nominal or minimum output
Maximum pulse duration	3 us	Published pulse limit
Maximum duty cycle	0.0015 fraction	Published duty-cycle limit

TUBE TINKER

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and their source documents.

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