



ELECTRONIC TUBE REFERENCE

6517

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Mechanically tunable pulsed magnetron covering approximately 1.25–1.35 GHz with nominal 1.3 MW peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	28 V / 75 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	70000 V
MAXIMUM CATHODE CURRENT	60 A
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.</i>	

Mechanically tunable pulsed magnetron covering 1.25 to 1.35 GHz with nominal 1.3 MW peak 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	28 V	Published nominal or representative value
Heater or filament current	75 A	Published nominal or representative value
Frequency range	1250–1350 MHz	Published operating or tuning range

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF power output	1300000 W	Published nominal or minimum output
Maximum pulse duration	3.3 us	Published pulse limit
Maximum duty cycle	0.0013 fraction	Published duty-cycle limit