



ELECTRONIC TUBE REFERENCE

6249A

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Mechanically tunable pulsed magnetron covering approximately 8.5–9.6 GHz with about 240 kW peak output, integral magnet, and forced-air cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	9 V / 14.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM CATHODE CURRENT	32 A
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.</i>	

Mechanically tunable pulsed magnetron oscillator with approximately 240 kW peak output over 8.5 to 9.6 GHz, using an integral magnet 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	9 V	Published nominal value
Heater or filament current	14.2 A	Published nominal or representative value
Frequency range	8500–9600 MHz	Published operating or tuning range
Minimum preheat time	3 min	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF power output	240000 W	Published or source-summary output
Maximum duty cycle	0.0013 fraction	Published absolute maximum