

ELECTRONIC TUBE REFERENCE

8357

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency high-power pulsed magnetron designed for radar and related short-pulse microwave service in its specified operating band.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	8000 V
<i>Promoted fields are used only where the published value maps cleanly to the locked schema; device-specific microwave, pulse, photoelectric, camera, and indicator data are preserved as parameter rows.</i>	

Forced-air-capable fixed-frequency X-band pulse magnetron for airborne radar, operating from 9345 to 9405 MHz with integral magnet and waveguide output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1964 RMA EIA

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	9345 MHz	—
Frequency maximum	9405 MHz	—
Peak anode voltage minimum	6 kV	—
Peak anode voltage maximum	8 kV	—
Peak anode current maximum	85 A	—
Peak input power maximum	68 kW	—
Mean input power maximum	80 W	—
Duty cycle maximum	0.0025 ratio	—
Pulse length maximum	2.5 us	—
Voltage rise rate maximum	100 kV/us	—
Anode temperature maximum	120 degC	—
Peak anode voltage	7.5 kV	—
Peak output power	25 kW	—
Mean output power	22 W	—
Pulse repetition rate	400 pps	—

TUBE TINKER

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and their source documents.

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