



ELECTRONIC TUBE REFERENCE

8468

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	12.6 V / 26 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	18000 V
WARM-UP TIME	180 s
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.	

High-power pulsed microwave magnetron rated to 18 kV peak anode voltage and approximately 75 W average RF 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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum preheat time	180 s	—
Pulling factor	8 MHz	—
Pushing factor	0.1 MHz/A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage maximum	14 V	—
Heater surge current maximum	100 A	—
Peak anode voltage maximum	18 kV	—
Average input power maximum	272 W	—
Anode temperature maximum	150 degC	—
VSWR maximum	1.5 ratio	—
Duty cycle maximum	0.001 ratio	—
Pulse width maximum	3.3 us	—
Peak anode voltage minimum	15 kV	—
Peak anode voltage maximum	17 kV	—
Average anode current	16 mA	—
Average output power	75 W	—