



ELECTRONIC TUBE REFERENCE

6841

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency forced-air-cooled pulsed magnetron oscillator delivering approximately 50 kW peak RF output for radar service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 10.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	19000 V
MAXIMUM CATHODE CURRENT	16 A
<i>Published maximum ratings and typical characteristics promoted from the approved source; identical repeated sections compressed where applicable.</i>	

Fixed-frequency forced-air-cooled pulsed magnetron oscillator delivering approximately 50 kW peak RF output for radar service.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	4 V	Nominal
HeaterCurrentNominal	10.5 A	Nominal
Maximum Plate Voltage	19000 V	—
Maximum Cathode Current	16 A	—
PeakAnodePowerInputMaximum	290000 W	Pulse
Duty Cycle Maximum	0.001	Pulse

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakRFOutputPowerMinimum	50000 W	Pulse