

ELECTRONIC TUBE REFERENCE

6865

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Tunable forced-air-cooled pulsed magnetron oscillator covering approximately 8.75–9.6 GHz for radar service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	23000 V
MAXIMUM CATHODE CURRENT	27.5 A
Published maximum ratings and electrical characteristics promoted from approved source.	

Tunable forced-air-cooled pulsed magnetron oscillator covering approximately 8.75 to 9.6 GHz for radar service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	3 A	Nominal
Maximum Plate Voltage	23000 V	—
Maximum Cathode Current	27.5 A	—
PeakPowerInputMaximum	630000 W	Pulse
Duty Cycle Maximum	0.001	Pulse

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyRange	—	8.75 to 9.60 GHz
PeakRFOutputPower	200000 W	Pulse