

ELECTRONIC TUBE REFERENCE

7718

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	3.6 V / 150 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	39000 V
MAXIMUM CATHODE CURRENT	68.6 A
Published maximum ratings and characteristics promoted from approved source.	

Fixed-frequency liquid-cooled high-power pulsed magnetron operating around 9.34 to 9.44 GHz.

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	3.6 V	Nominal
HeaterCurrentNominal	150 A	Nominal
Maximum Plate Voltage	39000 V	—
Maximum Cathode Current	68.6 A	—
PulseService	1	Pulsed magnetron operation

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyRange	—	9.34 to 9.44 GHz