

ELECTRONIC TUBE REFERENCE

2J30

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Pulsed magnetron oscillator centered near 2.88 GHz for radar and microwave-generator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 15 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	350 W
MAXIMUM CATHODE CURRENT	30 A
Published maximum ratings and characteristics promoted from approved source.	

Pulsed magnetron oscillator centered near 2.88 GHz for radar and microwave-generator 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	6.3 V	Nominal
HeaterCurrentNominal	1.5 A	Nominal
Maximum Plate Voltage	22000 V	—
Maximum Plate Dissipation	350 W	—
Maximum Cathode Current	30 A	—
MaximumDutyCycle	0.002	Pulse

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OperatingFrequency	2.88 GHz	Nominal
PeakRFOutputPower	240 W	0.001 duty cycle



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 English Electric Valve

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

1971 ENGLISH ELECTRIC VALVE

Section 1 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	2860–2900 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical peak output power	300 kW	Pulse
Typical peak anode voltage	20 kV	Pulse
Typical peak anode current	30 A	Pulse
Duty cycle	0.001	Pulse
Heater voltage	6.3 V	—
Heater current	15 A	—
Minimum cathode heating time	2 min	—
Magnetic field	1900 gauss	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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