

ELECTRONIC TUBE REFERENCE

JP802B

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Forced-air-cooled fixed-frequency X-band pulsed magnetron designed specifically for airborne Doppler-navigation radar equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded.
Pulsed magnetron interaction structure.

The Mullard JP802B is a forced-air-cooled fixed-frequency X-band pulsed magnetron for airborne Doppler-navigation equipment.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Magnetron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	1.2 A	—
Frequency Minimum	8.77 GHz	—
Frequency Maximum	8.83 GHz	—
Nominal Frequency	8.8 GHz	—
Pulse Voltage Minimum	750 V	I _{pulse} =150mA
Pulse Voltage Maximum	850 V	I _{pulse} =150mA
RF Pulse Power Output Minimum	17 W	I _{pulse} =150mA
Quick Reference Pulse Power Output	25 W	—
Frequency Pulling Factor	15 MHz	VSWR=1.5
Frequency Pushing Factor	0.125 MHz/mA	—
Frequency Temperature Coefficient	-0.25 MHz/degC	—
Input Capacitance	9 pF	—
Minimum Heating Time	2 min	AmbientAbove0C

TUBE TINKER

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