



ELECTRONIC TUBE REFERENCE

8123

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Tunable high-power pulsed magnetron designed for radar and related short-pulse microwave service across its specified frequency range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron

No fixed ratings recorded.

Published promoted values where applicable; special microwave values retained as parameters.

The 8123 is a Western Electric pulsed magnetron oscillator with published microwave operating data.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Western Electric Random 2

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

1960 WESTERN ELECTRIC RANDOM 2

Section 1 · Magnetron

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	16000-17000 MHz	Tunable
Peak power output	70 kW	Pulse

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak anode voltage	16 kV	Pulse
Peak anode current	5 A	Pulse

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