

ELECTRONIC TUBE REFERENCE

M503

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Air-cooled packaged 3 cm multi-resonator pulse magnetron with pre-plumbed waveguide output for X-band microwave service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded. Promoted values mapped from printed rating/approximate-data tables; additional operating points and capacitances retained as parameters.

Air-cooled packaged 3-cm multi-resonator pulse magnetron with pre-plumbed waveguide output.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Minimum	9345 MHz	—
Frequency Maximum	9405 MHz	—
Tuning Pulling Range	14 MHz	—
Rate of Rise of Voltage Maximum	60 kV/us	—
Duty Cycle Maximum	0.001	—
Magnetic Field	4800 Oe	—
Efficiency Minimum	25 percent	—
Typical Peak Anode Voltage	55 kV	—
Typical Peak Anode Current	5 A	—
Typical Pulse Duration	1 us	—
Typical PRF	1000 pps	—
Typical Peak Output Power	8 kW	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker