



ELECTRONIC TUBE REFERENCE

F1103

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Variable-frequency forced-air-cooled X-band pulsed magnetron producing about 220 kW nominal peak RF output. It is designed as a tunable high-power microwave pulse oscillator rather than a continuous-wave source.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Magnetron

No fixed ratings recorded.

Magnetron oscillator section; frequency, pulse/CW power, anode, heater and cooling data retained as parameters.

Variable-frequency X-band pulsed magnetron with about 220 kW nominal peak output and forced-air cooling.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Magnetron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	8500 MHz	—
Frequency maximum	9600 MHz	—
Peak RF output minimum	200 kW	Pulse
Peak RF output nominal	220 kW	Pulse
Warmup time	180 s	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Forced air	—