

ELECTRONIC TUBE REFERENCE

MCF1145

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency high-power pulsed magnetron designed for radar and related short-pulse microwave service in its specified operating band.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 2.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded. Specialized microwave-device ratings are preserved densely in TUBE_SECTION_PARAMETER because the locked promoted columns do not directly represent beam/helix/collector/magnetron pulse ratings.

Fixed-frequency pulsed magnetron, 9.225–9.275 GHz, 65 kW minimum peak RF output; thermal-inertia cooled.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Thomson CSF

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

1972 THOMSON CSF

Section 1 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	9.225–9.275 GHz	—
Heater Warm-up Current	2 A–2.4 A	—
Peak Output Power Minimum	65 kW	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Anode Voltage	14–17 kV	—
Peak Anode Current	17 A	—
Average Applied Power Maximum	255 W	—
Heater Voltage Maximum	13.5 V	—
Heater Surge Current Maximum	10 A	—
Warm-up Time Minimum	150 s	—
Duty Factor Maximum	0.0012	—
Pulse Duration	0.4–2.5 μ s	—
Rate of Rise of Anode Voltage	70–150 kV/ μ s	—
Typical Peak Output Power	65 kW	—

TUBE TINKER

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

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