

ELECTRONIC TUBE REFERENCE

MCV1055E

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Mechanically or frequency-tunable high-power pulsed magnetron designed for radar and related microwave service across its specified tuning range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	14 V / 5.2 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.

Frequency-tunable S-band pulsed magnetron, MCV1055E band 2900–3015 MHz, at least 1 MW peak output.

SOURCE OPERATING CONDITIONS

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	2900–3015 MHz	—
Heater Current	4.8 A–5.6 A	—
Peak Anode Voltage	27–33 kV	—
Peak Output Power Minimum	1 MW	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Cathode Capacitance Maximum	25 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Warm-up Time Minimum	240 s	—
Warm-up Voltage	13–15 V	—
Heater Surge Current Maximum	15 A	—
Average Anode Current Maximum	70 mA	—
Peak Anode Current Maximum	65 A	—
Duty Cycle Maximum	0.0011	—
Pulse Duration Maximum	4.4 us	—
Rate of Rise of Voltage Maximum	100 kV/us	—
Typical Peak Anode Current	60 A	—
Typical Peak Anode Voltage	30 kV	—
Typical Peak RF Output	1.1 MW	—

TUBE TINKER

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and their source documents.

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