

ELECTRONIC TUBE REFERENCE

MCV1353

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	20 V / 14.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
<i>No fixed ratings recorded.</i>
<i>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.</i>

Mechanically tunable L-band pulsed magnetron, 1315–1370 MHz, 2.2 MW minimum peak output; water cooled.

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	1315–1370 MHz	—
Heater Current	13 A–16 A	—
Peak Anode Voltage	38–42 kV	—
Peak Anode Current	155 A	—
Peak Output Power Minimum	2.2 MW	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Power Output Typical	2.3 MW	—
Heater Starting Current Maximum	50 A	—
Warm-up Time Minimum	5 min	—
Peak Applied Power Maximum	6.4 MW	—
Average Applied Power Maximum	6.4 kW	—
Peak Anode Voltage Maximum	42 kV	—
Peak Anode Current Maximum	160 A	—
Pulse Length Maximum	5 us	—
Rate of Rise of Voltage Maximum	60 kV/us	—

TUBE TINKER

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

