

ELECTRONIC TUBE REFERENCE

TV1542

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Water-cooled mechanically tuned S-band radar magnetron producing at least approximately 1.9 MW peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8.5 V / 9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	43000 V
MAXIMUM CATHODE CURRENT	110 A
Pulsed magnetron oscillator; magnetic-field/tuning/pulse values preserved as parameters.	

The Thomson-CSF TV1542 is a water-cooled mechanically tuned s-band pulsed magnetron with at least 1.9 mw peak output.

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	2.992–3.001 GHz	—
Heater voltage	8.5 V	—
Heater current	8 A–10 A	—
Tuning type	Mechanical	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak RF output power minimum	1900 kW	—
Warm-up time minimum	3 min	—
Peak anode voltage	43 kV	—
Peak anode current	110 A	—
Pulse duration	2.5 us	—
Duty factor	0.001	—
Maximum heater surge current	15 A	—

TUBE TINKER

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and their source documents.

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