

ELECTRONIC TUBE REFERENCE

TV1501

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Mechanically tuned forced-air-cooled C-band pulsed magnetron designed specifically for radar service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	9.5 V / 5.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	35000 V
MAXIMUM CATHODE CURRENT	30 A
Pulsed magnetron oscillator; magnetic-field/tuning/pulse values preserved as parameters.	

The Thomson-CSF TV1501 is a mechanically tuned forced-air-cooled c-band pulsed magnetron for radar.

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	5.35–5.5 GHz	—
Heater voltage	9.5 V	—
Heater current	4.5 A–6.5 A	—
Tuning type	Mechanical	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak RF output power minimum	400 kW	—
Warm-up time minimum	3 min	—
Peak anode voltage	35 kV	—
Peak anode current	30 A	—
Pulse duration	0.8 us	—
Duty factor	0.001	—