

ELECTRONIC TUBE REFERENCE

TV1547

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Coaxial mechanically tuned 16-17 GHz pulsed magnetron designed specifically for high-frequency radar systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 2.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	17000 V
MAXIMUM CATHODE CURRENT	15 A
Pulsed magnetron oscillator; magnetic-field/tuning/pulse values preserved as parameters.	

The Thomson-CSF TV1547 is a coaxial mechanically tuned 16-17 ghz pulsed magnetron for radar systems.

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	16–17 GHz	—
Heater voltage	12.6 V	—
Heater current	2.4 A–2.4 A	—
Tuning type	Mechanical	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak RF output power minimum	60 kW	—
Warm-up time minimum	3 min	—
Peak anode voltage	17 kV	—
Peak anode current	15 A	—
Pulse duration	0.5 us	—
Duty factor	0.001	—
Frequency pulling maximum	8 MHz	—
Pushing maximum	300 kHz/A	—
Cooling air flow minimum	0.425 m3/min	—
Tuner rotation rate maximum	600 rpm	—

TUBE TINKER

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and their source documents.

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