

ELECTRONIC TUBE REFERENCE

TH3509

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Rugged long-life metal-ceramic traveling-wave amplifier developed for broadband electronic-countermeasures systems and demanding military microwave service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	6500 V
MAXIMUM CATHODE CURRENT	210 mA

Rugged long-life metal-ceramic TWT for ECM 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 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	7-11 GHz	—
Heater Voltage	6.3 V	—
RF Output Power	>150 W	—
Collector Voltage	2.9 x helix voltage	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Helix/Beam/Anode Voltage	6500 V	—
Cathode/Beam Current	210 mA	—
Warm-up Time	3 min	—
Helix Voltage	5.8-6.5 kV	—
Helix Current Maximum	35 mA	—
Collector Dissipation Maximum	1200 W	—
Load VSWR Maximum	2.1:1	—

TUBE TINKER

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and their source documents.

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