



ELECTRONIC TUBE REFERENCE

F4034B

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

O-type Carcinotron backward-wave oscillator designed for electronically tunable millimeter-wave generation across approximately 23.5–37.5 GHz.

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

SECTION 1 TravelingWave	
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM CATHODE CURRENT	2 mA

The F4034B is an O-type carcinotron backward-wave oscillator covering approximately 23.5-37.5 GHz.

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	23.5-37.5 GHz	—
Heater Voltage	6.3 V	—
Heater Current	0.8-1.5 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	500 V	—
Maximum Line Voltage	3250 V	—
Maximum Line Current	40 mA	—
Warm-up Time	2 min	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-to-All-Other-Electrodes Capacitance	30 pF	—

TUBE TINKER

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and their source documents.

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