

ELECTRONIC TUBE REFERENCE

7783

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Voltage-tunable backward-wave oscillator covering 2-4 GHz, designed for continuous-wave or pulsed microwave signal generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM CATHODE CURRENT	20 mA
Published maximum ratings and characteristics promoted from approved source.	

Voltage-tunable backward-wave oscillator for CW or pulsed operation from 2 to 4 GHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RAYTHEON

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	1.3 A	Nominal
Maximum Plate Voltage	250 V	—
Maximum Cathode Current	20 mA	—
DelayLineVoltageMaximum	1600 V	—
DelayLineCurrentMaximum	45 mA	—
DelayLineDissipationMaximum	8 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyRange	—	2 to 4 GHz