

ELECTRONIC TUBE REFERENCE

8154

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Ruggedized low-noise broadband traveling-wave tube for 7-11 GHz microwave amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave
No fixed ratings recorded.
Traveling-wave-tube helix/collector/electrode operating data retained in parameters.

Ruggedized low-noise broadband traveling-wave tube for 7000-11000 MHz service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	400 mA	—
OperatingFrequencyMinimum	7000 MHz	—
OperatingFrequencyMaximum	11000 MHz	—
SmallSignalGainMinimum	25 dB	—
SaturatedPowerOutput	5 mW	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
NoiseFigureMaximum	10 dB	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentCurrentNominal	300 mA	—
FrequencyMinimum	7000 MHz	—
FrequencyMaximum	11000 MHz	—
SaturatedPowerOutputNominal	5 mW	—
CollectorDissipation	1 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
NoiseFigureMaximum	10 dB	—
SmallSignalGainMinimum	25 dB	—