ELECTRONIC TUBE REFERENCE

F2058

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Traveling-wave microwave amplifier for broadband RF power or intermediate amplification, using electron-beam interaction with a slow-wave structure.

General characteristics

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

Section ratings

SECTION1 TravelingWave	
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM CATHODE CURRENT	2 A

The F2058 is a rugged metal-envelope helix traveling-wave power amplifier with integral PPM focusing, designed for pulsed microwave operation over 2.9–3.1 GHz.

SOURCE OPERATING CONDITIONS

1962 ITT

SOURCE PDF

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

1962 ITT

Section 1 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	2900–3100 MHz	—
Heater Voltage	6.3 V	—
Heater Current	3 A	—
Gain	30 dB	—
Warm-up Time	120 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	8000 V	—
Maximum Collector Voltage	8000 V	—
Maximum Cathode Current	2 A	Peak
Maximum RF Output Power	30 W	Average
Maximum Duty Cycle	0.01	—
Maximum Beam Pulse Width	100 us	—
Minimum Peak Output Power	1000 W	—
Cooling Airflow	25 cfm	—

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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