



ELECTRONIC TUBE REFERENCE

F2063

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

SECTION 1 TravelingWave	
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM CATHODE CURRENT	2 A

The F2063 is a rugged metal-envelope helix traveling-wave power amplifier with integral PPM focusing, designed for pulsed microwave operation over 2.5–4 GHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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	2500–4000 MHz	—
Heater Voltage	6.3 V	—
Heater Current	3 A	—
Gain	33 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	10 us	—
Minimum Peak Output Power	1000 W	—
Cooling Airflow	25 cfm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control Grid to All Other Elements Capacitance	20 pF	—

TUBE TINKER

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

