

ELECTRONIC TUBE REFERENCE

LA4250

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Unpackaged 3.6–4.2 GHz traveling-wave intermediate amplifier providing at least 30 dB gain and 200 mW minimum saturated output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	6.3 V / 750 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	TravelingWave
<p>No fixed ratings recorded.</p> <p>Promoted values are taken directly from the supplied datasheet; additional ratings, characteristics and operating points are preserved in TUBE_SECTION_PARAMETER.</p>	

Unpackaged traveling-wave tube intended as an intermediate microwave amplifier in the 3.6 to 4.2 GHz band.

SOURCE OPERATING CONDITIONS

1963 Mullard

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

1963 MULLARD

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode1 voltage maximum	500 V	—
Anode2 voltage maximum	1600 V	—
Helix voltage maximum	1500 V	—
Collector voltage maximum	1500 V	—
Collector current maximum	5 mA	—
Collector dissipation maximum	7.5 W	—
Input signal maximum	1 W	—
Frequency minimum	3.6 GHz	—
Frequency maximum	4.2 GHz	—
Frequency	3.9 GHz	—
Anode1 voltage	200 V	f=3.9GHz
Anode2 voltage	1200 V	f=3.9GHz
Helix voltage	1200 V	f=3.9GHz
Collector voltage	1250 V	f=3.9GHz
Collector current	3.5 mA	f=3.9GHz
Gain	31 dB	f=3.9GHz
Noise factor	24 dB	f=3.9GHz
Power output	30 mW	f=3.9GHz

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gain minimum	30 dB	LowPowerLevel
Noise factor maximum	25 dB	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Saturation output power minimum	200 mW	—

TUBE TINKER

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

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