

ELECTRONIC TUBE REFERENCE

4010

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Intermediate-power helix traveling-wave amplifier covering 2-4 GHz, delivering watt-level saturated output with roughly 32-35 dB gain.

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 CATHODE CURRENT	25 mA
Published maximum ratings and electrical characteristics promoted from the approved source.	

Intermediate-power helix traveling-wave amplifier for 2-4 GHz driver/output service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	1.3 A	Nominal
Maximum Cathode Current	25 mA	—
CollectorVoltageMaximum	1300 V	—
HelixVoltageMaximum	1200 V	—
GridNo2VoltageMaximum	700 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyRange	—	2 to 4 GHz
SaturatedPowerOutput	1.8 W	Typical CW operation at 3 GHz
SmallSignalGain	35 dB	Typical CW operation at 3 GHz



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	2000 MHz	—
Frequency maximum	4000 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Periodic permanent magnet	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Saturated RF output	1.8 W	—
Gain	32 dB	—

TUBE TINKER

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

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