

ELECTRONIC TUBE REFERENCE

X1059

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Rugged metal-ceramic octave-band traveling-wave tube covering approximately 4-8 GHz, designed for severe environments and specialized microwave modulation service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	TravelingWave
MAXIMUM CATHODE CURRENT	30 mA

The Eimac X1059 is a ruggedized metal-ceramic octave-band traveling-wave tube for 4-8 GHz service, capable of operation under severe environments and suitable for serrodyne applications.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage Range	5.9–6.7 V	—
Frequency Range	4–8 GHz	—
Small Signal Gain Typical	38 dB	—
Saturated Power Output Minimum	2 W	—
Saturated Power Output Typical	3 W	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Helix Voltage	2600 V	—
Maximum Helix Current	7 mA	—

TUBE TINKER

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and their source documents.

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