

ELECTRONIC TUBE REFERENCE

EM1050

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Eimac intermediate-power traveling-wave amplifier covering 8-12 GHz, providing high small-signal gain and several watts of saturated continuous-wave RF output.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 TravelingWave	
MAXIMUM CATHODE CURRENT	28 mA
Traveling-wave electron-beam device. Fixed TUBE_SECTION schema has no beam-voltage, helix or collector fields; published TWT ratings are preserved as parameters.	

The EIMAC EM1050 is an intermediate-power traveling-wave-tube amplifier for 8-12 ghz.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC beam voltage	3500 V	—
Cathode current	28 mA	—
Minimum saturated output power	3 W	—
Nominal small-signal gain	60 dB	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range minimum	8 GHz	—
Frequency range maximum	12 GHz	—

TUBE TINKER

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