

ELECTRONIC TUBE REFERENCE

EM1046

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Ruggedized 8-12 GHz traveling-wave power amplifier providing about 30 dB small-signal gain and at least 1 W saturated 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	23 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 EM1046 is an ruggedized power-amplifier traveling-wave tube 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	3000 V	—
Cathode current	23 mA	—
Minimum saturated output power	1 W	—
Nominal small-signal gain	30 dB	—

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