ELECTRONIC TUBE REFERENCE

EM1016

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Intermediate-power 4–8 GHz traveling-wave amplifier providing about 30 dB small-signal gain and at least 3 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	35 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 EM1016 is an intermediate-power traveling-wave-tube amplifier for 4–8 ghz.

SOURCE OPERATING CONDITIONS

1962 Eimac

SOURCE PDF

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	**2600 V**	—
Cathode current	**35 mA**	—
Minimum saturated output power	**3 W**	—
Nominal small-signal gain	**30 dB**	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range minimum	**4 GHz**	—
Frequency range maximum	**8 GHz**	—

Tube Tinker

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