ELECTRONIC TUBE REFERENCE

ZM3281

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

High-power X-band PPM-focused traveling-wave amplifier covering 8–12 GHz, providing at least 35 dB small-signal gain and 1 kW saturated RF output.

General characteristics

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

Section ratings

SECTION1 TravelingWave

No fixed ratings recorded.

RF performance values are retained in TUBE_SECTION_PARAMETER from the supplied GE traveling-wave-tube family sheet.

High-power X-band PPM-focused traveling-wave tube. The supplied General Electric data specifies a 8–12 GHz operating range, minimum small-signal gain of 35 dB, and minimum saturated output of 1000 W.

SOURCE OPERATING CONDITIONS

SOURCE PDF

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OperatingFrequencyMinimum	**8 GHz**	—
OperatingFrequencyMaximum	**12 GHz**	—
MinimumSmallSignalGain	**35 dB**	—
MinimumSaturatedPowerOutput	**1000 W**	—

Tube Tinker

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

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