ELECTRONIC TUBE REFERENCE

ZM3314

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

High-power S-band traveling-wave amplifier covering 2.9–3.1 GHz, with periodic-permanent-magnet focusing, 37 dB minimum gain, and 2.5 kW saturated 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.

Traveling-wave interaction structure represented as Other; published microwave performance is stored as section parameters.

High-power S-band periodic-permanent-magnet traveling-wave tube with about 2.5 kW minimum peak saturated output.

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
Frequency Minimum	**2.9 GHz**	—
Frequency Maximum	**3.1 GHz**	—
Small Signal Gain Minimum	**37 dB**	—
Focusing Method	**Periodic Permanent Magnet**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Saturation Power Output Minimum	**2.5 kW**	—
Maximum Duty	**0.03**	—
Maximum Pulse Width	**40 us**	—

TUBE TINKER

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

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