ELECTRONIC TUBE REFERENCE

ZM3174

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

High-power traveling-wave amplifier covering 5.4–6.2 GHz, delivering approximately 1 kW saturated output with at least 40 dB gain.

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; conventional plate/grid promoted fields are not applicable.

The ZM3174 is a traveling-wave tube covering 5.4 to 6.2 GHz, with published gain of at least 40 dB and RF output of 1 kW.

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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range Minimum	**5.4 GHz**	—
Frequency Range Maximum	**6.2 GHz**	—
Gain	**40 dB**	Minimum published gain
Saturation Power Output	**1 kW**	Published RF output

TUBE TINKER

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

Catalog Tube types Full books Blog Feedback & corrections

© 2026 Tube Tinker