

ELECTRONIC TUBE REFERENCE

ZM3212

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Ruggedized low-noise broadband traveling-wave amplifier with single-reversal permanent-magnet focusing, at least 25 dB gain and a 9 dB maximum noise figure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / —	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 microwave amplifier section; helix, collector, gain, noise, and RF data retained as parameters.	

ZM3212 ruggedized low-noise broadband traveling-wave tube with permanent-magnet focusing.

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

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Device class	Traveling-wave tube	—
Focusing method	Single-reversal permanent magnet	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	Low-noise microwave amplification	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Noise figure maximum	9 dB	—
Small-signal gain minimum	25 dB	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	500 mA	—
Helix voltage	640 V	—