



ELECTRONIC TUBE REFERENCE

YH1162

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Power traveling-wave microwave amplifier covering approximately 3.4–4.2 GHz, intended for broadband high-frequency amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 510 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 TravelingWave	
MAXIMUM SCREEN VOLTAGE	3000 V
MAXIMUM CATHODE CURRENT	70 mA
<i>Traveling-wave tube represented as Other; helix, collector and microwave data are preserved in parameters.</i>	

Indirectly heated AEG-TELEFUNKEN power traveling-wave tube specified for 3.4 to 4.2 GHz service and approximately 22 W output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 AEG

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

1953 AEG

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.1–6.5 V	—
Heater current	485 mA–535 mA	—
Preheating time minimum	2 min	—
Frequency range	3.4–4.2 GHz	—
Output power	22 W	—
Input power	2.8 mW	—
Collector 1 voltage	1300 V	—
Collector 2 voltage	650 V	—
Helix voltage	2200–2500 V	—
Grid-2 voltage	2500–2900 V	—
Low-level gain	43 dB	—
Operating gain	29 dB	—
Grid-2 voltage absolute maximum	3000 V	—
Helix voltage absolute maximum	3000 V	—
Collector supply voltage maximum	3200 V	—
Collector dissipation maximum	110 W	—
Ambient operating temperature	-30–65 degC	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode current	55–65 mA	—

TUBE TINKER

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and their source documents.

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