



ELECTRONIC TUBE REFERENCE

55340

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Traveling-wave microwave amplifier providing broadband RF gain through interaction between an electron beam and a slow-wave structure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	NOVAL	BASE PINS	9
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 TravelingWave	
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	70 W
MAXIMUM CATHODE CURRENT	55 mA
<i>Published ratings and operating/characteristic data reviewed.</i>	

55340 is listed in the supplied Amperex material as a traveling-wave amplifier tube. Published ratings and operating characteristics were captured from the supplied table.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range minimum	3.8 GHz	TravelingWaveAmplifier
Frequency range maximum	4.2 GHz	TravelingWaveAmplifier
Heater voltage	6.3 V	TravelingWaveAmplifier
Heater current	800 mA	TravelingWaveAmplifier
Gain	37 dB	TravelingWaveAmplifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Helix voltage	1100 V	TravelingWaveAmplifier
Magnetic field	600 gauss	TravelingWaveAmplifier
Power output	5 W	TravelingWaveAmplifier

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · TravelingWave

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	3800–4200 Mc/s	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum saturated output power	8 W	—
Minimum low-level gain	39 dB	4200Mc/s
Magnetic field strength	600 Gauss	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Helix voltage	-1100 V	—
Accelerator voltage	-30 V	—
Collector voltage	50 V	—
Maximum cathode current	55 mA	—
Maximum accelerator voltage	1500 V	—
Maximum collector voltage	1500 V	—
Maximum collector dissipation	70 W	—

TUBE TINKER

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