



ELECTRONIC TUBE REFERENCE

TBL1240

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated Philips high-power triode for RF and AF amplification and oscillator service. Rated for approximately 15 kW plate dissipation and 13 kV plate voltage for demanding transmitting and industrial applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8 V / 130 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.025 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	13000 V
MAXIMUM PLATE DISSIPATION	15000 W
MAXIMUM CATHODE CURRENT	4.8 A
<i>Published filament, capacitance, typical characteristics, limiting values and RF/AF operating tables reviewed.</i>	

TBL1240 is a Philips RF/AF amplifier and oscillator triode. The supplied datasheet provides direct-filament data, RF/AF ratings, capacitances and high-power operating conditions.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	8 V	DirectlyHeated
Filament current	130 A	DirectlyHeated

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	13000 V	Published limit
Maximum plate dissipation	15000 W	Published limit
Maximum cathode/plate current	4.8 A	Published limit
Maximum starting filament current	280 A	FilamentStarting
Maximum plate input power	60 kW	RFService
Maximum grid current	1 A	RFService
Plate voltage	12000 V	ClassC
Grid bias	-1000 V	ClassC
Plate current	4.5 A	ClassC
Plate input power	54 kW	ClassC
Plate dissipation	13 kW	ClassC

1999 Philips E-Z

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

1999 PHILIPS E-Z
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	12000 V	—
Anode current	2 A	—
Transconductance	25000 μS	—
Amplification factor	33	—
Anode capacitance	0.6 pF	—
Grid capacitance	45 pF	—
Anode-grid capacitance	27 pF	—
Maximum anode voltage	13000 V	—
Maximum anode dissipation	15000 W	—

TUBE TINKER

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and their source documents.

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