



ELECTRONIC TUBE REFERENCE

TAW1235G

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled directly heated Philips transmitting triode for high-power amplifier and oscillator service. Approximately 30 kW plate dissipation and 15 kV capability provide substantially greater continuous power than its air-cooled companion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	28.3 V / 46.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	12
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	30000 W
MAXIMUM CATHODE CURRENT	5 A
Water-cooled TAW12/35G companion designation printed on the TAL12/35 sheet.	

Water-cooled TAW12/35G companion designation printed on the TAL12/35 sheet.

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	28.3 V	DirectlyHeated
Filament current	46.5 A	DirectlyHeated

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	15000 V	Published limit
Maximum plate dissipation	30000 W	Published limit
Maximum cathode/plate current	5 A	Published limit
Maximum filament peak current per phase	100 A	FilamentStarting
Plate voltage	15000 V	RFService
Grid bias	-900 V	RFService
Plate current	4.2 A	RFService
Grid current	420 mA	RFService
Plate input power	63 kW	RFService
Plate dissipation	14.5 kW	RFService
Power output	48.5 kW	RFService

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
2) At temperatures ti; between 20 and 50% the required	2 A	2) At temperatures ti; between 20 and 50% the required
the anode- and grid seals at frequencies above 10 Mç/s	10 a	the anode- and grid seals at frequencies above 10 Mç/s
Etrier du filament (pour alimentation 40606	40606 a	Etrier du filament (pour alimentation 40606
1) Grid bias partially obtained by the grid resistor	1 a	1) Grid bias partially obtained by the grid resistor

TUBE TINKER

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

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