

ELECTRONIC TUBE REFERENCE

TA1215

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Water-cooled tungsten-filament power triode for high-frequency amplification in powerful transmitters. Approximately 7.5 kW plate dissipation and 12 kV capability support substantial Class B and Class C RF service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	22 V / 41 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7300 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM PLATE DISSIPATION	7500 W
MAXIMUM CATHODE CURRENT	1.25 A
Water-cooled RF transmitting triode	

Directly heated water-cooled tungsten-filament triode designed for high-frequency power amplification in powerful transmitters. The sheet gives class-B and class-C operating data, 12 kV anode rating, 7.5 kW dissipation, transconductance, and internal resistance.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
volts and the maximum anode dissipation of 7	-5 kW	—
50 % [1]	15 kW	—
50 % [2]	75 kW	—
50 % [3]	7.5 kW	—
60 % [1]	15 kW	—
60 % [2]	9 kW	—
60 % [3]	6 kW	—
65 % [1]	15 kW	—
65 % [2]	-8 kW	—
65 % [3]	52 kW	—
70 9% [1]	15 kW	—
70 9% [2]	10.5 kW	—
70 9% [3]	-5 kW	—
Anode voltage V, == max	12000 V	ClassB;Modulator
voltage current modulation power power [1]	12000 V	ClassB;Modulator
voltage current modulation power power [2]	28 kW	ClassB;Modulator
voltage current modulation power power [3]	112 kW	ClassB;Modulator
voltage current modulation power power [4]	75 kW	ClassB;Modulator
voltage current modulation power power [2]	33 kW	ClassB;Modulator

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage current modulation power power [4]	10 kW	ClassB;Modulator
Mutual conductance at I, = 0°	8 A	ClassB;Modulator
voltage should not exceed 10,000 volts. Internal resistance atl, [1]	8 A	ClassC;ClassB;Modulator
voltage should not exceed 10,000 volts. Internal resistance atl, [2]	7300 ohms	ClassC;ClassB;Modulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage Vi	220 V	ClassB
Filament current I == appr	41 A	ClassB
Anode Anode Depth of Carrier Peak Total emission Iy, == appr	6 A	ClassB

TUBE TINKER

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