

ELECTRONIC TUBE REFERENCE

YD1141

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Air-cooled high-power RF triode for RF and AF amplification, television, oscillator, and industrial Class C service. Rated for approximately 50 kW plate dissipation and 15 kV plate voltage for major transmitter and industrial applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	17.5 V / 196 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	416.667 Ω
TRANSCONDUCTANCE	0.06 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	50000 W
MAXIMUM CATHODE CURRENT	12.5 A
High-power RF triode; published principal characteristic and limiting values promoted.	

Air-cooled high-power RF triode for RF/AF amplifier, television and oscillator service. Published filament, capacitance, limiting-rating, and representative Class-C industrial oscillator data were extracted from the supplied Philips sheet.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	17.5 V	—
Filament current	196 A	—
Transconductance	60000 μ S	—
Amplification factor	25	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	2.2 pF	—
Grid to filament capacitance	72 pF	—
Anode to grid capacitance	75 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	15000 V	—
Maximum anode current	12.5 A	—
Maximum anode dissipation	50000 W	—
Operating frequency	15 MHz	IndustrialClassC
Operating anode voltage	12000 V	IndustrialClassC;Frequency=15MHz
Operating anode current	12 A	IndustrialClassC;Frequency=15MHz
Anode output power	108000 W	IndustrialClassC;Frequency=15MHz

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling system	ForcedAir	—

TUBE TINKER

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and their source documents.

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