



ELECTRONIC TUBE REFERENCE

YD1173

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled metal-ceramic RF power triode for high-power industrial Class C oscillator service. Rated for approximately 10 kW plate dissipation and 12 kV plate voltage for demanding industrial RF applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.4 V / 65 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	818.182 Ω
TRANSCONDUCTANCE	0.022 S
AMPLIFICATION FACTOR	18
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM CATHODE CURRENT	2 A
High-power RF triode; published principal characteristic and limiting values promoted.	

Forced-air-cooled metal-ceramic RF power triode for industrial 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	5.4 V	—
Filament current	65 A	—
Transconductance	22000 μ S	—
Amplification factor	18	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	0.4 pF	—
Grid to filament capacitance	42 pF	—
Anode to grid capacitance	17 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	12000 V	—
Maximum anode current	2 A	—
Maximum anode dissipation	10000 W	—
Operating frequency	27.12 MHz	IndustrialClassC
Operating anode voltage	10000 V	IndustrialClassC;Frequency=27.12MHz
Operating anode current	1.75 A	IndustrialClassC;Frequency=27.12MHz
Anode output power	13700 W	IndustrialClassC;Frequency=27.12MHz

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling system	ForcedAir	—

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