



ELECTRONIC TUBE REFERENCE

YD1240

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Air-cooled metal-ceramic RF power triode with integral cooler, designed for Class C industrial oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 33 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	5500 V
MAXIMUM PLATE DISSIPATION	1600 W
MAXIMUM CATHODE CURRENT	1.1 A
High-power RF triode; published principal characteristic and limiting values promoted.	

Air-cooled metal-ceramic RF power triode with integral cooler for industrial oscillators. 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	6.3 V	—
Filament current	33 A	—
Transconductance	10000 μ S	—
Amplification factor	20	—
Filament voltage above 120 MHz	6 V	Frequency>120MHz

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	0.4 pF	—
Grid to filament capacitance	17 pF	—
Anode to grid capacitance	14 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	5500 V	—
Maximum anode current	1.1 A	—
Maximum anode dissipation	1600 W	—
Operating frequency	27.12 MHz	IndustrialClassC
Operating anode voltage	5000 V	IndustrialClassC;Frequency=27.12MHz
Operating anode current	750 mA	IndustrialClassC;Frequency=27.12MHz
Anode output power	2900 W	IndustrialClassC;Frequency=27.12MHz
Frequency for full ratings	250 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling system	ForcedAir	—

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