ELECTRONIC TUBE REFERENCE

YD1174

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled high-power RF triode for industrial oscillator service.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	5.8 V / 130 A	**PARALLEL HEATER**	— / —
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode	
PLATE RESISTANCE	436.364 Ω
TRANSCONDUCTANCE	0.055 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM CATHODE CURRENT	5 A
High-power RF triode; published principal characteristic and limiting values promoted.	

Forced-air-cooled 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

1999 Philips E-Z

SOURCE PDF

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	5.8 V	—
Filament current	130 A	—
Transconductance	55000 uS	—
Amplification factor	24	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	1 pF	—
Grid to filament capacitance	47 pF	—
Anode to grid capacitance	25 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	12000 V	—
Maximum anode current	5 A	—
Maximum anode dissipation	10000 W	—
Operating frequency	27.12 MHz	IndustrialClassC
Operating anode voltage	10000 V	IndustrialClassC;Frequency=27.12MHz
Operating anode current	4 A	IndustrialClassC;Frequency=27.12MHz
Anode output power	30800 W	IndustrialClassC;Frequency=27.12MHz
Frequency for full ratings	120 MHz	—

CONSTRUCTION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Cooling system	**ForcedAir**	—

Tube Tinker

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

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