

ELECTRONIC TUBE REFERENCE

YD1187

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Water-cooled high-power RF triode for industrial oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7 V / 175 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	1250 Ω
TRANSCONDUCTANCE	0.04 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	14400 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM CATHODE CURRENT	6 A
High-power RF triode; published principal characteristic and limiting values promoted.	

Water-cooled YD1187 variant with integral cooler, covered on the YD1185/YD1187 sheet. 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

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	7 V	—
Filament current	175 A	—
Transconductance	40000 μ S	—
Amplification factor	50	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	0.8 pF	—
Grid to filament capacitance	66 pF	—
Anode to grid capacitance	22 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	14400 V	—
Maximum anode current	6 A	—
Maximum anode dissipation	20000 W	—
Operating frequency	30 MHz	IndustrialClassC
Operating anode voltage	12000 V	IndustrialClassC;Frequency=30MHz
Operating anode current	5.33 A	IndustrialClassC;Frequency=30MHz
Anode output power	51200 W	IndustrialClassC;Frequency=30MHz
Frequency for full ratings	100 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling system	Water	—

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