



ELECTRONIC TUBE REFERENCE

YD1197

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled YD1195-family high-power RF triode with integral cooler, designed for Class C industrial oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8.4 V / 235 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	625 Ω
TRANSCONDUCTANCE	0.08 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	14400 V
MAXIMUM PLATE DISSIPATION	50000 W
MAXIMUM CATHODE CURRENT	15 A
<i>High-power RF triode; published principal characteristic and limiting values promoted.</i>	

Water-cooled YD1197 variant with integral cooler, covered on the YD1195/YD1197 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	8.4 V	—
Filament current	235 A	—
Transconductance	80000 μ S	—
Amplification factor	50	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	1.2 pF	—
Grid to filament capacitance	100 pF	—
Anode to grid capacitance	33 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	14400 V	—
Maximum anode current	15 A	—
Maximum anode dissipation	50000 W	—
Operating frequency	30 MHz	IndustrialClassC
Operating anode voltage	12000 V	IndustrialClassC;Frequency=30MHz
Operating anode current	9.75 A	IndustrialClassC;Frequency=30MHz
Anode output power	92100 W	IndustrialClassC;Frequency=30MHz
Frequency for full ratings	100 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling system	Water	—

TUBE TINKER

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