

ELECTRONIC TUBE REFERENCE

YD1212

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled external-anode ceramic-metal triode designed for high-power Class C industrial RF oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 380 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	210.526 Ω
TRANSCONDUCTANCE	0.19 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	16800 V
MAXIMUM PLATE DISSIPATION	120000 W
MAXIMUM CATHODE CURRENT	25 A
High-power industrial oscillator triode.	

The Mullard YD1212 is a water-cooled external-anode ceramic-metal triode for high-power Class C industrial oscillators.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 MULLARD

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	30 MHz	—
Maximum Plate Voltage	16800 V	—
Maximum Plate Dissipation	100000 W	—
Operating Frequency	30 MHz	ClassC; IndustrialOscillator
Plate Voltage	14000 V	ClassC
Plate Current	23.5 A	ClassC
RF Output Power Less Drive	240 kW	ClassC
Efficiency	75.2 percent	ClassC



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	12.6 V	—
Filament current	380 A	—
Transconductance	190000 uS	—
Amplification factor	40	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	3 pF	—
Grid to filament capacitance	185 pF	—
Anode to grid capacitance	60 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	16800 V	—
Maximum anode current	25 A	—
Maximum anode dissipation	120000 W	—
Operating frequency	30 MHz	IndustrialClassC
Operating anode voltage	14000 V	IndustrialClassC;Frequency=30MHz
Operating anode current	23.5 A	IndustrialClassC;Frequency=30MHz
Anode output power	247500 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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