

ELECTRONIC TUBE REFERENCE

YD1182

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

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	825 Ω
TRANSCONDUCTANCE	0.04 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	9000 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM CATHODE CURRENT	6 A
High-power industrial oscillator triode.	

The Mullard YD1182 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	80 MHz	—
Maximum Plate Voltage	9000 V	—
Maximum Plate Dissipation	20000 W	—
Operating Frequency	80 MHz	ClassC; IndustrialOscillator
Plate Voltage	7500 V	ClassC
Plate Current	5.4 A	ClassC
RF Output Power Less Drive	30 kW	ClassC
Efficiency	80 percent	ClassC



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 uS	—
Amplification factor	33	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	1 pF	—
Grid to filament capacitance	66 pF	—
Anode to grid capacitance	32 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	9000 V	—
Maximum anode current	6 A	—
Maximum anode dissipation	20000 W	—
Operating frequency	27.12 MHz	IndustrialClassC
Operating anode voltage	7500 V	IndustrialClassC;Frequency=27.12MHz
Operating anode current	5.4 A	IndustrialClassC;Frequency=27.12MHz
Anode output power	33000 W	IndustrialClassC;Frequency=27.12MHz
Frequency for full ratings	100 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling system	Water	—