



ELECTRONIC TUBE REFERENCE

YD1162

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Mullard external-anode power triode for industrial Class C oscillator service. Rated for approximately 5 kW plate dissipation and 7 kV plate voltage, with high transconductance for industrial RF power generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 66 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	909.091 Ω
TRANSCONDUCTANCE	0.022 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	7000 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM CATHODE CURRENT	2.2 A
Industrial Class C oscillator triode.	

The Mullard YD1162 is an external-anode industrial Class C oscillator triode in the YD1160 family.



SOURCE OPERATING CONDITIONS

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	160 MHz	—
Maximum Plate Voltage	7000 V	—
Maximum Plate Dissipation	5000 W	—
Operating Frequency	27.12 MHz	ClassC; IndustrialOscillator
RF Output Power Less Drive	7.65 kW	ClassC; IndustrialOscillator



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	6.3 V	—
Filament current	66 A	—
Transconductance	22000 uS	—
Amplification factor	20	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	0.5 pF	—
Grid to filament capacitance	19 pF	—
Anode to grid capacitance	14.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	7200 V	—
Maximum anode current	2.2 A	—
Maximum anode dissipation	5000 W	—
Operating frequency	27.12 MHz	IndustrialClassC
Operating anode voltage	6500 V	IndustrialClassC;Frequency=27.12MHz
Operating anode current	1.8 A	IndustrialClassC;Frequency=27.12MHz
Anode output power	9200 W	IndustrialClassC;Frequency=27.12MHz
Frequency for full ratings	85 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling system	Water	—