



ELECTRONIC TUBE REFERENCE

YD1170

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Mullard external-anode power triode for high-power industrial Class C oscillator service. Rated for approximately 10 kW plate dissipation and 7.2 kV plate voltage for substantial continuous high-frequency power generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.8 V / 130 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	750 Ω
TRANSCONDUCTANCE	0.04 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	7200 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM CATHODE CURRENT	4 A
Industrial Class C oscillator triode.	

The Mullard YD1170 is an external-anode industrial Class C oscillator triode in the YD1170 family.



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	120 MHz	—
Maximum Plate Voltage	7200 V	—
Maximum Plate Dissipation	10000 W	—
Operating Frequency	120 MHz	ClassC; IndustrialOscillator
RF Output Power Less Drive	15.4 kW	ClassC; IndustrialOscillator
Plate Voltage	6000 V	ClassC; 120MHz
Plate Current	3.4 A	ClassC; 120MHz
RF Output Power	16.2 kW	ClassC; 120MHz
Efficiency	79.4 percent	ClassC; 120MHz



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	5.8 V	—
Filament current	130 A	—
Transconductance	40000 uS	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	30	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament capacitance	0.8 pF	—
Grid to filament capacitance	47 pF	—
Anode to grid capacitance	25 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	7200 V	—
Maximum anode current	4 A	—
Maximum anode dissipation	10000 W	—
Operating frequency	120 MHz	IndustrialClassC
Operating anode voltage	6000 V	IndustrialClassC;Frequency=120MHz
Operating anode current	3.4 A	IndustrialClassC;Frequency=120MHz
Anode output power	16100 W	IndustrialClassC;Frequency=120MHz
Frequency for full ratings	120 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling system	ForcedAir	—

TUBE TINKER

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