

ELECTRONIC TUBE REFERENCE

TY1250A

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled very-high-power transmitting triode for major RF power applications. Approximately 100 kW plate dissipation and 15 kV capability support extremely high continuous transmitter output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	17.5 V / 196 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.05 S
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	100000 W
MAXIMUM CATHODE CURRENT	20 A
Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.	

Forced-air-cooled very-high-power transmitting triode.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	17.5 V	—
HeaterOrFilamentCurrent	196 A	—
Grid To Plate Capacitance	86 pF	—
Input Capacitance	116 pF	—
Output Capacitance	3.4 pF	—
Transconductance	50 mA/V	—
TransconductanceMaximum	92 mA/V	PlateVoltage=3kV;PlateCurrent=50A
Amplification Factor	27	—
Cooling	Forced air	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateVoltage	15 kV	ClassB;AF
MaxPlateVoltage	13.5 kV	ClassB;Telephony
MaxPlateVoltage	10 kV	ClassC;Telephony
MaxCathodeCurrent	20 A	—
MaxPlateDissipation	100 kW	ClassB;Telephony
MaxGridCurrent	3 A	ClassC
MaxGridVoltageMagnitude	1.2 kV	ClassC

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

