



ELECTRONIC TUBE REFERENCE

TY4350

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Directly heated all-glass VHF power triode for transmitting service. Approximately 400 W plate dissipation and multi-kilovolt capability provide useful power for VHF oscillator and amplifier circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM GRID DISSIPATION	20 W
MAXIMUM CATHODE CURRENT	600 mA
<i>Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.</i>	

All-glass VHF power triode rated for about 400 W anode dissipation.

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	10 V	—
HeaterOrFilamentCurrent	10 A	—
Grid To Plate Capacitance	6.3 pF	—
Input Capacitance	12.3 pF	—
Output Capacitance	8.5 pF	—
Transconductance	4 mA/V	—
Amplification Factor	35	—
MaximumOperatingFrequency	75 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateVoltage	4 kV	ForcedAirCooling
MaxPlateVoltage	3 kV	NaturalCooling
MaxPlateDissipation	400 W	ForcedAirCooling
MaxPlateDissipation	300 W	NaturalCooling
MaxGridCurrent	100 mA	—
MaxGridDissipation	20 W	—
MaxCathodeCurrent	600 mA	—
PeakCathodeCurrentMaximum	3 A	—
Frequency	20 MHz	ClassC
Plate Voltage	4 kV	ClassC
Grid Voltage	-200 V	ClassC
Plate Current	450 mA	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Current	75 mA	ClassC
Plate Dissipation	360 W	ClassC

TUBE TINKER

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and their source documents.

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