



ELECTRONIC TUBE REFERENCE

TY5500

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Radiation-cooled RF power triode for transmitting service around 50 MHz. Approximately 1 kW plate dissipation and multi-kilovolt capability support kilowatt-class RF output in professional lower-VHF transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 32.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.033 S
AMPLIFICATION FACTOR	21
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM PLATE DISSIPATION	1000 W
MAXIMUM GRID DISSIPATION	110 W
MAXIMUM CATHODE CURRENT	1.1 A
<i>Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.</i>	

Radiation-cooled power triode rated for 1.6 kW output around 50 MHz.

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	5 V	—
HeaterOrFilamentCurrent	32.5 A	—
Grid To Plate Capacitance	5.1 pF	—
Input Capacitance	9.2 pF	—
Output Capacitance	0.2 pF	—
Transconductance	33 mA/V	—
TransconductanceHighCurrent	10 mA/V	PlateVoltage=1kV;PlateCurrent=2.3A
Amplification Factor	21	—
MaximumOperatingFrequency	50 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	50 MHz	—
MaxPlateVoltage	5 kV	—
MaxGridVoltageMagnitude	1.25 kV	—
MaxPlateDissipation	1000 W	DutyFactor=0.2
MaxCathodeCurrent	1.1 A	DutyFactor=0.2
MaxGridDissipation	110 W	DutyFactor=0.2
MaxGridCurrent	420 mA	DutyFactor=0.2
Frequency	50 MHz	ClassC
Plate Voltage	4 kV	ClassC
Plate Current	490 mA	ClassC
Grid Current	140 mA	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	450 W	ClassC
Efficiency	77 %	ClassC
Power Output	1.5 kW	ClassC