

ELECTRONIC TUBE REFERENCE

TY63000A

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled RF power triode for high-power transmitting applications. Approximately 3 kW plate dissipation and 7 kV capability support several kilowatts of professional transmitter output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 33 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.022 S
AMPLIFICATION FACTOR	26
MAXIMUM PLATE VOLTAGE	7000 V
MAXIMUM PLATE DISSIPATION	3000 W
MAXIMUM GRID DISSIPATION	110 W
MAXIMUM CATHODE CURRENT	2.5 A
Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.	

Forced-air-cooled RF power triode rated for about 7.6 kW output.

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	12.6 V	—
HeaterOrFilamentCurrent	33 A	—
Grid To Plate Capacitance	24 pF	—
Input Capacitance	21 pF	—
Output Capacitance	0.5 pF	—
Transconductance	22 mA/V	—
Amplification Factor	26	—
MaximumOperatingFrequency	150 MHz	—
Cooling	Forced air	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	150 MHz	—
MaxPlateVoltage	7 kV	—
MaxGridVoltageMagnitude	1 kV	—
MaxGridCurrent	350 mA	—
MaxCathodeCurrent	2.5 A	—
PeakCathodeCurrentMaximum	15 A	—
MaxPlateDissipation	3 kW	—
MaxGridDissipation	110 W	—
Frequency	30 MHz	ClassC
Plate Voltage	6 kV	ClassC
Plate Current	1.63 A	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage	-350 V	ClassC
Grid Current	310 mA	ClassC
Efficiency	84 %	ClassC
Power Output	7.6 kW	ClassC

TUBE TINKER

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

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