



ELECTRONIC TUBE REFERENCE

TY612A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled VHF power triode for very-high-power transmitting service. Approximately 10 kW plate dissipation and high current capability support published RF output in the tens-of-kilowatts range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 154 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	5500 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM CATHODE CURRENT	7.5 A
<i>Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.</i>	

Forced-air-cooled VHF power triode rated for about 17 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	6.3 V	—
HeaterOrFilamentCurrent	154 A	—
Grid To Plate Capacitance	29 pF	—
Input Capacitance	65 pF	—
Output Capacitance	0.6 pF	—
Amplification Factor	60	—
MaximumOperatingFrequency	220 MHz	—
Cooling	Forced air	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	110 MHz	FullRatings
MaximumOperatingFrequency	220 MHz	ReducedRatings
MaxPlateVoltage	5.5 kV	—
MaxPlateDissipation	10 kW	—
MaxGridVoltageMagnitude	500 V	—
MaxGridCurrent	1.5 A	—
MaxCathodeCurrent	7.5 A	—
PeakCathodeCurrentMaximum	40 A	—
Frequency	110 MHz	ClassC
Plate Voltage	5 kV	ClassC
Grid Voltage	-300 V	ClassC
Plate Current	4.8 A	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Current	1.2 A	ClassC
DriverPower	2.75 kW	ClassC
Plate Dissipation	9 kW	ClassC
Efficiency	62.5 %	ClassC
Power Output	15.42 kW	ClassC

TUBE TINKER

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and their source documents.

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