



ELECTRONIC TUBE REFERENCE

TY1215A

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled high-power RF transmitting triode for demanding oscillator and power-amplifier service. Approximately 15 kW plate dissipation and 13 kV capability provide substantial continuous professional RF power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8 V / 130 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.025 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	13000 V
MAXIMUM PLATE DISSIPATION	15000 W
MAXIMUM GRID DISSIPATION	750 W
MAXIMUM CATHODE CURRENT	5.8 A
Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.	

Forced-air-cooled high-power RF 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	8 V	—
HeaterOrFilamentCurrent	130 A	—
Grid To Plate Capacitance	27 pF	—
Input Capacitance	45 pF	—
Output Capacitance	0.6 pF	—
Transconductance	25 mA/V	—
TransconductanceHighCurrent	40 mA/V	PlateVoltage=2kV;PlateCurrent=22A
Amplification Factor	33	—
Cooling	Forced air	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	30 MHz	—
MaxPlateVoltage	13 kV	—
MaxCathodeCurrent	5.8 A	—
PeakCathodeCurrentMaximum	28 A	—
MaxGridVoltageMagnitude	1.5 kV	—
MaxGridCurrent	1 A	—
MaxPlateDissipation	15 kW	—
MaxGridDissipation	750 W	—
Frequency	30 MHz	ClassC
Plate Voltage	12 kV	ClassC
Plate Current	4.5 A	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage	-1 kV	ClassC
Grid Current	800 mA	ClassC
DriveVoltagePeak	1.6 kV	ClassC
DriverPower	1.25 kW	ClassC
Plate Dissipation	13 kW	ClassC
Efficiency	76 %	ClassC
Power Output	41 kW	ClassC