



ELECTRONIC TUBE REFERENCE

TY1225W

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled high-power RF transmitting triode for demanding oscillator and power-amplifier applications. Approximately 20 kW plate dissipation and 13 kV capability provide substantial continuous transmitter power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8 V / 98 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.02 S
AMPLIFICATION FACTOR	34
MAXIMUM PLATE VOLTAGE	13000 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM CATHODE CURRENT	4.8 A
<i>Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.</i>	

Water-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	98 A	—
Grid To Plate Capacitance	28 pF	—
Input Capacitance	33 pF	—
Output Capacitance	0.3 pF	—
Transconductance	20 mA/V	PlateVoltage=12kV;PlateCurrent=2A
TransconductanceHighCurrent	30 mA/V	PlateVoltage=2kV;PlateCurrent=13A
Amplification Factor	34	—
Cooling	Water	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	30 MHz	—
MaxPlateVoltage	13 kV	—
MaxCathodeCurrent	4.8 A	—
MaxGridVoltageMagnitude	1.5 kV	—
MaxGridCurrent	800 mA	—
MaxPlateDissipation	20 kW	—

TUBE TINKER

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

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