

ELECTRONIC TUBE REFERENCE

TX1220W

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Water-cooled high-power transmitting triode for RF power amplification and industrial RF heating.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	18.5 V / 85 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	3
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM CATHODE CURRENT	2.63 A
Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.	

Water-cooled high-power transmitting triode for RF power amplification and RF heating.

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	18.5 V	—
HeaterOrFilamentCurrent	85 A	—
Grid To Plate Capacitance	26 pF	—
Output Capacitance	1.5 pF	—
Amplification Factor	3	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	12 kV	ClassC
Grid Voltage	-900 V	ClassC
Plate Current	2.63 A	ClassC
Grid Current	370 mA	ClassC
DriveVoltagePeak	1.85 kV	ClassC
DrivePower	700 W	ClassC
PlateInputPower	22 kW	ClassC
Power Output	9.5 kW	ClassC
Efficiency	70 %	ClassC