



ELECTRONIC TUBE REFERENCE

TY65000B

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power VHF transmitting triode for telegraphy, telephony, television, and Class B audio service. Approximately 5 kW plate dissipation and multi-kilovolt capability support substantial RF and audio-frequency power.

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

SECTION 1 Triode	
TRANSCONDUCTANCE	0.017 S
AMPLIFICATION FACTOR	32
MAXIMUM PLATE VOLTAGE	6200 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM GRID DISSIPATION	120 W
MAXIMUM CATHODE CURRENT	1.85 A
<i>Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.</i>	

High-power VHF transmitting triode for telegraphy, telephony, TV, and Class B audio service.

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	11 pF	—
Input Capacitance	16 pF	—
Output Capacitance	0.3 pF	—
Transconductance	17 mA/V	—
Amplification Factor	32	—
Cooling	Forced air	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaxPlateVoltage	6.2 kV	ClassC;Telegraphy;Frequency<=75MHz
MaxPlateVoltage	5 kV	ClassC;Telephony
MaxPlateVoltage	4 kV	TV;Frequency=220MHz
MaxCathodeCurrent	1.85 A	ClassC;Telegraphy
MaxPlateDissipation	5 kW	ClassBOrClassC
MaxGridCurrent	350 mA	ClassC
MaxGridDissipation	120 W	—
Frequency	30 MHz	ClassC;TelegraphyOrFMTelephony
Plate Voltage	6 kV	ClassC;TelegraphyOrFMTelephony
Plate Current	1.5 A	ClassC;TelegraphyOrFMTelephony
Grid Voltage	-400 V	ClassC;TelegraphyOrFMTelephony
Grid Current	310 mA	ClassC;TelegraphyOrFMTelephony

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	2.1 kW	ClassC;TelegraphyOrFMTelephony
Power Output	6.9 kW	ClassC;TelegraphyOrFMTelephony
LoadPower	5.5 kW	ClassC;TelegraphyOrFMTelephony
Efficiency	76.5 %	ClassC;TelegraphyOrFMTelephony
Frequency	110 MHz	ClassC;TelegraphyOrFMTelephony
Plate Voltage	5 kV	ClassC;TelegraphyOrFMTelephony
Plate Current	1.25 A	ClassC;TelegraphyOrFMTelephony
Grid Voltage	-300 V	ClassC;TelegraphyOrFMTelephony
Grid Current	300 mA	ClassC;TelegraphyOrFMTelephony
Plate Dissipation	1.45 kW	ClassC;TelegraphyOrFMTelephony
Power Output	4.8 kW	ClassC;TelegraphyOrFMTelephony
LoadPower	3.9 kW	ClassC;TelegraphyOrFMTelephony
Efficiency	70 %	ClassC;TelegraphyOrFMTelephony
Plate Voltage	6 kV	ClassB;Audio;TwoTubes;PushPull
Plate Current	3 A	ClassB;Audio;TwoTubes;PushPull
Grid Voltage	-165 V	ClassB;Audio;TwoTubes;PushPull
Grid Current	560 mA	ClassB;Audio;TwoTubes;PushPull
Plate Dissipation	5 kW	ClassB;Audio;TwoTubes;PushPull
Power Output	13.3 kW	ClassB;Audio;TwoTubes;PushPull

TUBE TINKER

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

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