



ELECTRONIC TUBE REFERENCE

5771

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Very-high-power industrial and communications transmitting triode. Rated for 22.5 kW plate dissipation and 15 kV plate voltage, with published RF operating points producing roughly 44-49 kW output at frequencies to about 25 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 170 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	22500 W
MAXIMUM CATHODE CURRENT	35 A
<i>water/air-cooled power triode</i>	

5771 is listed in the supplied Amperex material as a high-emission industrial/communications transmitting triode. Published ratings and characteristics were captured from the supplied table.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1958 AMPEREX INDUSTRIAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	12500 V	RFPowerAmplifier
Plate current	4.8 A	RFPowerAmplifier
Power output	49000 W	RFPowerAmplifier
Control-grid voltage	-630 V	RFPowerAmplifier
Grid current	750 mA	RFPowerAmplifier
Maximum frequency at full input	25 MHz	RFPowerAmplifier
Maximum plate dissipation	22500 W	RFPowerAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	20	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	24.5 pF	Section1
Grid-to-filament capacitance	17 pF	Section1
Plate-to-filament capacitance	3 pF	Section1



1963 Amperex Condensed

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 AMPEREX CONDENSED
Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	7.5 V	TransmittingService
Filament current	170 A	TransmittingService
Amplification factor	20	TransmittingService

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	22500 W	TransmittingService
Plate voltage	12500 V	TransmittingService
Plate current	4.8 A	TransmittingService
Power output	44000 W	TransmittingService
Grid bias	-630 V	TransmittingService
Grid current	750 mA	TransmittingService
Maximum frequency	25 MHz	FullInputWatts



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ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

1971 RCA HB3 Binder 6 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 RCA HB3 BINDER 6 OF 7
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	15000 V	Water/forced-air-cooled power triode
Plate Dissipation	22.5 kW	Water/forced-air-cooled power triode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical DC Plate Voltage	12500 V	Water/forced-air-cooled power triode
Maximum-Signal Power Output	55 kW	Water/forced-air-cooled power triode
Peak Cathode Current	35 A	Water/forced-air-cooled power triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	20	Water/forced-air-cooled power triode
Grid-to-Plate Capacitance	24.5 pF	Water/forced-air-cooled power triode
Grid-to-Filament Capacitance	47 pF	Water/forced-air-cooled power triode
Plate-to-Filament Capacitance	3 pF	Water/forced-air-cooled power triode

TUBE TINKER

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

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