



ELECTRONIC TUBE REFERENCE

5770

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Massive grounded-grid transmitting triode for extremely high-power RF service. Rated for 50 kW plate dissipation and 17 kV plate voltage, with published operation producing approximately 105 kW output and peak cathode current around 50 A.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11 V / 285 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	17000 V
MAXIMUM PLATE DISSIPATION	50000 W
MAXIMUM CATHODE CURRENT	50 A
water/air-cooled grounded-grid power triode	

The 5770 is a high-power cooled triode. The supplied datasheet was processed for heater or filament data, maximum ratings, operating characteristics, capacitances, cooling/service conditions, and power-output data. Condition-specific transmitting ratings are retained in the section-parameter table.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	17000 V	Water/forced-air-cooled grounded-grid service
Plate Dissipation	50 kW	Water/forced-air-cooled grounded-grid service
Typical DC Plate Voltage	17000 V	Water/forced-air-cooled grounded-grid service
Power Output	105 kW	Water/forced-air-cooled grounded-grid service
Peak Cathode Current	50 A	Water/forced-air-cooled grounded-grid service

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	40	Water/forced-air-cooled grounded-grid service
Grid-to-Plate Capacitance	53 pF	Water/forced-air-cooled grounded-grid service
Grid-to-Filament Capacitance	89 pF	Water/forced-air-cooled grounded-grid service
Plate-to-Filament Capacitance	1.2 pF	Water/forced-air-cooled grounded-grid service

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