



ELECTRONIC TUBE REFERENCE

7800

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled power triode for communications and industrial service, also usable as a pulse amplifier and hard-tube modulator to roughly 200 kW peak.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8 V / 130 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	13000 V
MAXIMUM PLATE DISSIPATION	15000 W
MAXIMUM CATHODE CURRENT	4.8 A
<i>Published ratings/characteristics promoted from the source; representative section used for repeated identical systems where applicable.</i>	

7800 is a Triode device in the supplied Amperex literature. Forced-air-cooled triode for communication and industrial service; also useful as a pulse amplifier and hard-tube modulator to 200 kW peak.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	13000 V	—
Maximum Plate Dissipation	15000 W	—
Maximum Cathode Current	4.8 A	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	13000 V	RF/Industrial
Plate current	4.8 A	RF/Industrial
Output power	40000 W	RF/Industrial
Grid voltage	-1500 V	RF/Industrial
Grid current	1000 mA	RF/Industrial
Maximum frequency at full input rating	30 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	27 pF	—
Grid-to-filament capacitance	45 pF	—
Plate-to-filament capacitance	0.6 pF	—