



ELECTRONIC TUBE REFERENCE

7899

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power triode designed for pulse-modulator service, with manufacturer ratings centered on short-duration high-voltage, high-current pulses rather than continuous RF or audio operation. Its intended role is switching or modulating pulsed power in professional equipment.

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

SECTION 1 Triode	
TRANSCONDUCTANCE	0.025 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	7500 W
MAXIMUM GRID DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	100 A
<i>Published ratings/characteristics promoted from the source; representative section used for repeated identical systems where applicable.</i>	

7899 is a Triode device in the supplied Amperex literature. Forced-air-cooled hard-tube modulator designed for pulse application.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	25000 μ S	—
Amplification Factor	33	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	20000 V	—
Maximum Plate Dissipation	7500 W	—
Maximum Grid Dissipation	500 W	—
Maximum Cathode Current	100 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	15000 V	RF/Industrial
Plate current	70 A	RF/Industrial
Output power	200000 W	RF/Industrial
Grid voltage	-500 V	RF/Industrial

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid current	15000 mA	RF/Industrial
Pulse output power	200 kW	Pulsed
Pulse plate current	70 A	Pulsed

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	—