



ELECTRONIC TUBE REFERENCE

6801

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled counterpart to the 6800 high-power industrial RF triode. Approximately 10 kW plate dissipation and published output around 28 kW provide major RF power without the water-cooling system used by the 6800.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 107 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	19.5
MAXIMUM PLATE DISSIPATION	10000 W
<i>Published transmitting-triode ratings and typical RF operation extracted from source table.</i>	

Forced-air-cooled version of 6800 with 10 kW anode dissipation for high-power RF service.

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
Maximum plate dissipation	10000 W	—
Typical plate voltage	12500 V	RF industrial service
Typical plate current	3 A	RF industrial service
Typical power output	28000 W	RF industrial service
Typical grid voltage	-1200 V	RF industrial service
Typical grid current	430 mA	RF industrial service
Grid full-input power	22.5 W	RF industrial service

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	27 pF	—
Grid-to-filament capacitance	25 pF	—
Plate-to-filament capacitance	1.25 pF	—