



ELECTRONIC TUBE REFERENCE

6960

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled industrial power triode for induction heating, dielectric heating, and plastic sealing. Rugged overload capability, roughly 6 kW plate dissipation, and about 10 kW published RF output suit continuous industrial generator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 33 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.015 S
AMPLIFICATION FACTOR	32
MAXIMUM PLATE VOLTAGE	9500 V
MAXIMUM PLATE DISSIPATION	6000 W
MAXIMUM CATHODE CURRENT	2 A
Published maximum ratings and general characteristics promoted from the supplied datasheet.	

Industrial water-cooled triode with large grid and plate overload capacity for induction/dielectric heating and plastic sealing.



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
Heater/Filament Voltage	12.6 V	—
Heater/Filament Current	33 A	—
Maximum Plate Voltage	9500 V	—
Maximum Plate Dissipation	6000 W	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	15000 μ S	—
Amplification Factor	32	—



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	6000 W	—
Typical plate voltage	6500 V	RF industrial service
Typical plate current	2 A	RF industrial service
Typical power output	10000 W	RF industrial service

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical grid voltage	-450 V	RF industrial service
Typical grid current	600 mA	RF industrial service
Grid full-input power	55 W	RF industrial service

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	11 pF	—
Grid-to-filament capacitance	16 pF	—
Plate-to-filament capacitance	0.3 pF	—