



ELECTRONIC TUBE REFERENCE

859

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled high-power triode designed for substantial radio-frequency power service at frequencies extending to approximately 50 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	22 V / 71 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.008 S
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	20000 W
Water-cooled high-power RF triode; two 11 V filament units in series.	

The Amperex 859 is a water-cooled high-power triode designed for high-power radio-frequency service up to 50 MHz.

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	22 V	Published datasheet value
Heater/Filament Current	71 A	Published datasheet value
Maximum Plate/Anode Voltage	20000 V	Published datasheet value
Maximum Plate/Anode Dissipation	20000 W	Published datasheet value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	8000 μ S	Published datasheet value
Amplification Factor	36	Published datasheet value

TUBE TINKER

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and their source documents.

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