

ELECTRONIC TUBE REFERENCE

5868

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-frequency transmitting triode for substantial RF power amplification. Rated for 450 W plate dissipation, with published operation producing approximately 1.67 kW output from a 4 kV plate supply at frequencies to about 100 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	27
MAXIMUM PLATE DISSIPATION	450 W
<i>Promoted only where the locked section schema has a direct semantic match; device-specific thyatron, magnetron, transmitting-tube, ignitron, and broadband data are retained in TUBE_SECTION_PARAMETER.</i>	

5868 is listed in the supplied Amperex material as a high-frequency transmitting triode. Published ratings and characteristics were captured from the supplied table.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	4000 V	RFPowerAmplifier
Plate current	475 mA	RFPowerAmplifier
Power output	1673 W	RFPowerAmplifier
Control-grid voltage	-350 V	RFPowerAmplifier
Grid current	100 mA	RFPowerAmplifier
Maximum frequency at full input	100 MHz	RFPowerAmplifier
Maximum plate dissipation	450 W	RFPowerAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	27	RFPowerAmplifier



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published classification	high-frequency transmitting triode	Amperex power-tube description