

ELECTRONIC TUBE REFERENCE

5866

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Radiation- or forced-air-cooled high-frequency transmitting triode for VHF RF power amplification. Rated for 135 W plate dissipation, with published operation producing about 390 W output at frequencies to approximately 150 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 5.4 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	25
MAXIMUM PLATE DISSIPATION	135 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>	

5866 is listed in the supplied Amperex material as a radiation/forced-air-cooled HF 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	2500 V	RFPowerAmplifier
Plate current	200 mA	RFPowerAmplifier
Power output	390 W	RFPowerAmplifier
Control-grid voltage	-300 V	RFPowerAmplifier
Grid current	45 mA	RFPowerAmplifier
Maximum frequency at full input	150 MHz	RFPowerAmplifier
Maximum plate dissipation	135 W	RFPowerAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	25	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	5.5 pF	Section1
Grid-to-filament capacitance	5.8 pF	Section1
Plate-to-filament capacitance	0.1 pF	Section1



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
Published classification	radiation/forced-air-cooled HF triode	Amperex power-tube description

TUBE TINKER

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