

High-frequency transmitting triode for medium-power RF service. Rated for 250 W plate dissipation and 3 kV plate voltage, with published operating conditions producing approximately 840–950 W RF output to about 100 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 14.1 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 VOLTAGE	3000 V
MAXIMUM PLATE DISSIPATION	250 W
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.	

5867 is listed in the supplied Amperex material as a radiation/forced-air-cooled HF low-drive 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	3000 V	RFPowerAmplifier
Plate current	363 mA	RFPowerAmplifier
Power output	950 W	RFPowerAmplifier
Control-grid voltage	-400 V	RFPowerAmplifier
Grid current	80 mA	RFPowerAmplifier
Maximum frequency at full input	100 MHz	RFPowerAmplifier
Maximum plate dissipation	250 W	RFPowerAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	25	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

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	5 V	TransmittingService

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament current	14.1 A	TransmittingService
Amplification factor	25	TransmittingService

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	250 W	TransmittingService
Plate voltage	3000 V	TransmittingService
Plate current	363 mA	TransmittingService
Power output	840 W	TransmittingService
Grid bias	-250 V	TransmittingService
Grid current	69 mA	TransmittingService
Maximum frequency	100 MHz	FullInputWatts

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