



ELECTRONIC TUBE REFERENCE

5759

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled transmitting triode for VHF RF power amplification and oscillation. Published Class C operation produces about 2.18 kW output from 3.5 kV, with full-input ratings extending to approximately 150 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 24 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	1000 W
Published ratings and characteristics mapped semantically from the source.	

5759 is listed in the supplied Amperex material as a forced-air-cooled low-voltage high-current RF triode. Published ratings and characteristics were captured from the supplied table.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	17	Published source value

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	forced air	Published source value



SOURCE OPERATING CONDITIONS

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	3500 V	RF Amplifier Or Oscillator; Class C; Telegraphy
Plate current	870 mA	RF Amplifier Or Oscillator; Class C; Telegraphy
RF output power	2175 W	RF Amplifier Or Oscillator; Class C; Telegraphy
Grid voltage	-250 V	RF Amplifier Or Oscillator; Class C; Telegraphy
Grid current	133 mA	RF Amplifier Or Oscillator; Class C; Telegraphy
Maximum frequency at full input rating	150 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	10 pF	—
Grid-to-filament/cathode capacitance	11 pF	—
Plate-to-filament/cathode capacitance	1.3 pF	—



SOURCE DATA APPENDIX

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	7.5 V	TransmittingService
Filament current	24 A	TransmittingService
Amplification factor	17	TransmittingService

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	1000 W	TransmittingService
Plate voltage	3500 V	TransmittingService
Plate current	870 mA	TransmittingService
Power output	2175 W	TransmittingService
Grid bias	-250 V	TransmittingService
Grid current	133 mA	TransmittingService
Maximum frequency	150 MHz	FullInputWatts

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

