



ELECTRONIC TUBE REFERENCE

6077

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Very-high-power directly heated triode with an exceptionally heavy filament. Available source material does not establish a narrower functional application confidently.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	17.5 V / 196 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM PLATE DISSIPATION	100000 W
MAXIMUM CATHODE CURRENT	120 A
<i>Published promoted ratings/characteristics captured where applicable; additional source values preserved in parameter rows.</i>	

6077 is a Triode device. Water-cooled very-high-power RF triode for amplifier, oscillator, and modulator service; plate dissipation 45 kW in Class C and up to 100 kW in Class-B RF operation.



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
Maximum frequency at full ratings	15 MHz	—
Reduced-rating frequency	30 MHz	—
Filament starting current maximum	420 A	—
Peak cathode current maximum	120 A	—



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	27	—
Maximum frequency	30 MHz	—
Grid-to-plate capacitance	6 pF	—
Grid-to-filament capacitance	116 pF	—
Plate-to-filament capacitance	3.4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	100000 W	—
Plate voltage	12000 V	ClassC
Plate current	12 A	ClassC
Power output	108000 W	ClassC
Grid voltage	-1000 V	ClassC
Grid current	2.25 A	ClassC



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	12000 V	RF Amplifier Or Oscillator; ClassC
Plate current	12 A	RF Amplifier Or Oscillator; ClassC
RF output power	108 kW	RF Amplifier Or Oscillator; ClassC
Grid voltage	-1000 V	RF Amplifier Or Oscillator; ClassC
Grid current	2.25 A	RF Amplifier Or Oscillator; ClassC
Maximum frequency at full input rating	15 MHz	—
Maximum plate dissipation Class B RF	100 kW	ClassB; RF

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	86 pF	—
Grid-to-filament capacitance	116 pF	—
Plate-to-filament capacitance	3.4 pF	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker