



ELECTRONIC TUBE REFERENCE

5923

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Water-cooled low-drive transmitting triode designed for industrial RF-heating applications. Rated for 6 kW plate dissipation and 6 kV plate voltage, with published Class C operation producing approximately 6.9 kW RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 33 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	32
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM PLATE DISSIPATION	6000 W
Published ratings and characteristics mapped semantically from the source.	

5923 is a Triode device. Water-cooled low-drive HF triode for RF heating applications.



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	32	Published source value

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



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	32	—
Maximum frequency	75 MHz	—
Grid-to-plate capacitance	110 pF	—
Grid-to-filament capacitance	16 pF	—
Plate-to-filament capacitance	0.3 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	6000 W	—
Plate voltage	6000 V	ClassC
Plate current	1.5 A	ClassC
Power output	6900 W	ClassC
Grid voltage	-400 V	ClassC
Grid current	310 mA	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 current	1.5 A	RFPower
RF output power	6900 W	RFPower
Grid voltage	-400 V	RFPower
Grid current	310 mA	RFPower

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	11 pF	—
Grid-to-filament capacitance	16 pF	—
Plate-to-filament capacitance	0.3 pF	—

TUBE TINKER

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

