

ELECTRONIC TUBE REFERENCE

5924A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled power triode designed for FM and television transmitter service, with published Class B television operating data. Its 6 kW plate-dissipation rating supports substantial broadcast-frequency RF power.

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
MAXIMUM CATHODE CURRENT	325 mA
Published ratings and characteristics mapped semantically from the source.	

5924A is a Triode device. Forced-air-cooled triode for FM and television transmitters; Class-B television sync-level data are published.



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	forced air	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 full input	75 MHz	—
Maximum frequency derated	220 MHz	—
Grid-to-plate capacitance	11 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	5000 V	ClassB TVService SyncLevel
Plate current	1.9 A	ClassB TVService SyncLevel
Power output	6250 W	ClassB TVService SyncLevel
Grid voltage	-140 V	ClassB TVService SyncLevel
Grid current	350 mA	ClassB TVService SyncLevel



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	5000 V	ClassB; TVService; SyncLevel
Plate current	1.9 A	ClassB; TVService; SyncLevel
RF output power	6250 W	ClassB; TVService; SyncLevel
Grid voltage	-140 V	ClassB; TVService; SyncLevel
Grid current	350 mA	ClassB; TVService; SyncLevel
Maximum frequency at full input rating	220 MHz	—

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	—