

ELECTRONIC TUBE REFERENCE

849A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Higher-current transmitting triode variant of the 849 for AM broadcasting and industrial RF heating. Published Class C operation produces about 1.2 kW RF output from a 3 kV plate supply.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	3
NOMINAL HEATER	10.5 V / 11 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0076 S
AMPLIFICATION FACTOR	19
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	500 mA
Promoted ratings and characteristics mapped from source tables.	

Higher-current transmitting-triode variant of the 849 for AM broadcasting and RF heating.



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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	16 pF	Published direct interelectrode capacitance
Grid To Filament Capacitance	14 pF	Published direct interelectrode capacitance



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;ClassC
Plate current	500 mA	RFPowerAmplifier;ClassC
Power output	1200 W	RFPowerAmplifier;ClassC
Control-grid voltage	-500 V	RFPowerAmplifier;ClassC
Grid current	100 mA	RFPowerAmplifier;ClassC
Maximum frequency at full input	20 MHz	RFPowerAmplifier

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	11.5 pF	Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-filament capacitance	4 pF	Section1
Plate-to-filament capacitance	1.8 pF	Section1



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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	3000 V	RFPowerAmplifier
Plate current	500 mA	RFPowerAmplifier
Power output	1200 W	RFPowerAmplifier
Control-grid voltage	-500 V	RFPowerAmplifier
Grid current	100 mA	RFPowerAmplifier
Maximum frequency at full input	20 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	11.5 pF	Section1
Grid-to-filament capacitance	4 pF	Section1
Plate-to-filament capacitance	1.8 pF	Section1

TUBE TINKER

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