



ELECTRONIC TUBE REFERENCE

849

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Radiation- and forced-air-cooled transmitting triode for AM broadcasting and industrial RF heating. Approximately 400 W plate dissipation and multi-kilovolt capability provide substantial RF power for broadcast and industrial generator applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	3
NOMINAL HEATER	11 V / 5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	3200 Ω
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	19
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM CATHODE CURRENT	350 mA
Maximum ratings and characteristic constants promoted where reliably published in the approved sheet.	

Radiation- and forced-air-cooled transmitting triode used in AM broadcasting and RF heating.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 RCA Transmitting Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1938 RCA TRANSMITTING TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	11 V	Nominal
HeaterCurrentNominal	5 A	Nominal
Maximum Plate Voltage	3000 V	—
Maximum Plate Dissipation	400 W	—
RFPowerOutput	560 W	ClassC Telegraphy; 2500 V plate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	19	Typical



SOURCE OPERATING CONDITIONS

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1945 United Electronics

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1945 UNITED ELECTRONICS

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	11 V	—
Filament current	5 A	—
Plate resistance	3200 ohm	—
Mutual conductance	6000 uS	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	19	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct plate voltage	3000 V	—
Maximum plate dissipation	400 W	—
Maximum direct plate current	350 mA	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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	33 pF	Published direct interelectrode capacitance
Grid To Filament Capacitance	11 pF	Published direct interelectrode capacitance


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1956 RCA Transmitting Tubes

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1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	11 V	—
HeaterOrFilamentCurrent	5 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumOperatingFrequency	30 MHz	Reduced ratings may apply at upper frequencies
Plate Input	875 W	ClassC


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1958 Amperex Industrial

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1958 AMPEREX INDUSTRIAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	2500 V	RFPowerAmplifier;ClassC
Plate current	350 mA	RFPowerAmplifier;ClassC
Power output	630 W	RFPowerAmplifier;ClassC
Control-grid voltage	-250 V	RFPowerAmplifier;ClassC
Grid current	13 mA	RFPowerAmplifier;ClassC
Maximum frequency at full input	3 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	33 pF	Section1
Grid-to-filament capacitance	11 pF	Section1
Plate-to-filament capacitance	2 pF	Section1


SOURCE DATA APPENDIX

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	2500 V	RFPowerAmplifier
Plate current	350 mA	RFPowerAmplifier
Power output	630 W	RFPowerAmplifier
Control-grid voltage	-250 V	RFPowerAmplifier
Grid current	13 mA	RFPowerAmplifier
Maximum frequency at full input	3 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	33 pF	Section1
Grid-to-filament capacitance	11 pF	Section1
Plate-to-filament capacitance	2 pF	Section1

TUBE TINKER

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