



ELECTRONIC TUBE REFERENCE

845

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Classic directly heated low-mu power triode for Class A and Class AB audio power or modulator service. Low plate resistance, roughly 100 W plate dissipation, and kilovolt capability support substantial high-quality audio output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	10 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	2100 Ω
TRANSCONDUCTANCE	0.003 S
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM CATHODE CURRENT	96 mA
Maximum ratings and characteristic constants promoted where reliably published in the approved sheet.	

Directly heated transmitting triode for Class-A/Class-AB modulator and audio power service.



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	10 V	Nominal
HeaterCurrentNominal	3.25 A	Nominal
Maximum Plate Voltage	1250 V	—
Maximum Plate Dissipation	75 W	—
UndistortedPowerOutput	24 W	ClassA; 1250 V plate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2500 μ S	Typical
Amplification Factor	5.3	Typical



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

193X Taylor Transmitting

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

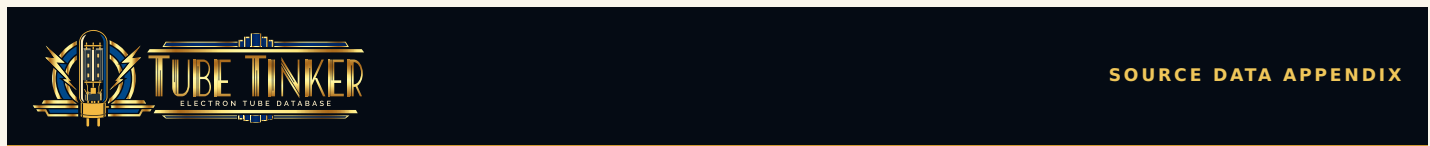
193X TAYLOR TRANSMITTING

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	10 V	Nominal published value
Filament Current	3.85 A	Nominal published value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Plate Voltage	1250 V	Class C oscillator / RF power-amplifier service where published
Maximum Plate Dissipation	75 W	Published maximum rating
class	14 pF	Published direct interelectrode capacitance
Plate to Filament	6 pF	Published direct interelectrode capacitance

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	2100 ohm	Published general characteristic
Mutual Conductance	3000 μ S	Published general characteristic
Amplification Factor	5	Published general characteristic



SOURCE OPERATING CONDITIONS

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1940 Taylor Tubes

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1940 TAYLOR TUBES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-grid capacitance	14 pF	—
Grid-to-filament capacitance	6.5 pF	—
Plate-to-filament capacitance	6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Audio output	21 W	ClassA PlateVoltage=1000V
Audio output	24 W	ClassA PlateVoltage=1250V
Class AB audio output	75 W	ClassAB
Class AB audio output	105 W	ClassAB



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	10 V	—
Filament current	3.25 A	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct plate voltage	1250 V	—
Maximum plate dissipation	100 W	—
Maximum direct plate current	96 mA	—



SOURCE OPERATING CONDITIONS

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1953 Amperex

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1953 AMPEREX

Section 1 · Triode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	11.5 pF	Published direct interelectrode capacitance
Grid To Filament Capacitance	5 pF	Published direct interelectrode capacitance



1956 RCA Transmitting Tubes

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1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	10 V	—
HeaterOrFilamentCurrent	3.25 A	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1958 Amperex Industrial

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1958 AMPEREX INDUSTRIAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	1250 V	AudioAmplifier
Plate current	220 mA	AudioAmplifier
Power output	105 W	AudioAmplifier
Control-grid voltage	-105 V	AudioAmplifier
Grid current	30 mA	AudioAmplifier
Maximum frequency at full input	15 MHz	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	11.5 pF	Section1
Grid-to-filament capacitance	5 pF	Section1
Plate-to-filament capacitance	3.5 pF	Section1

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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1963 AMPEREX CONDENSED

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	1250 V	RFPowerAmplifier
Plate current	200 mA	RFPowerAmplifier
Power output	105 W	RFPowerAmplifier
Control-grid voltage	-225 V	RFPowerAmplifier
Grid current	0 mA	RFPowerAmplifier
Maximum frequency at full input	15 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	13.5 pF	Section1
Grid-to-filament capacitance	6 pF	Section1
Plate-to-filament capacitance	6.5 pF	Section1