

ELECTRONIC TUBE REFERENCE

810

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

High-mu transmitting power triode for efficient RF amplifier and oscillator final stages. With about 175 W plate dissipation and multi-kilovolt capability, it also supports substantial Class B audio operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	10 V / 4.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	2250 V
MAXIMUM PLATE DISSIPATION	175 W
MAXIMUM CATHODE CURRENT	300 mA
Published ratings and characteristics promoted from the supplied General Electric source.	

Transmitting triode for RF power-amplifier and oscillator final-stage service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	10 V	—
HeaterOrFilamentCurrent	4.5 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyForMaximumRatings	30 MHz	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 RCA Transmitting Tubes

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

1956 RCA TRANSMITTING TUBES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	36	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	2750 V	—
Maximum Plate Dissipation	175 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Cathode Current	300 mA	—
Full-Input Operating Frequency Maximum	40 MHz	—
Power Output	725 W	ClassB,AF,TwoTubes
Typical Plate Voltage	2250 V	Representative published point
Typical Plate Current	250 mA	Representative published point


SOURCE DATA APPENDIX

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
Maximum plate voltage	2250 V	Published Amperex table
Power output	475 W	Published Amperex table
Plate dissipation	125 W	Published Amperex table
Plate current	275 mA	Published Amperex table
Grid bias	160 V	Published Amperex table
Grid current	10 mA	Published Amperex table
Maximum frequency	30 MHz	Published Amperex table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	36	Published Amperex table
Heater/filament voltage	10 V	Published Amperex table
Heater/filament current	4.5 A	Published Amperex table


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	2000 V	RFPower
Plate current	250 mA	RFPower
Power output	375 W	RFPower
Grid voltage	-160 V	RFPower
Grid current	40 mA	RFPower
Maximum frequency	100 MHz	RFPower

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	4.8 pF	—
Input capacitance	8.7 pF	—
Output capacitance	12 pF	—