



ELECTRONIC TUBE REFERENCE

957

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-frequency triode for RF amplification, oscillation, frequency multiplication, or related VHF/UHF signal service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5BD	BASE PINS	5
NOMINAL HEATER	1.25 V / 50 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	20800 Ω
TRANSCONDUCTANCE	0.00065 S
AMPLIFICATION FACTOR	13.5
MAXIMUM PLATE VOLTAGE	135 V
<i>Published Class A amplifier characteristics promoted.</i>	

Directly heated acorn medium-mu triode for dry-cell battery operation.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tre B5	2 A	Tre B57id a triode having 2 moderately high amplii=
4 erthen Taciof. Y1 May be ouzed as 0 Getechor, ampli=	0 mA	4 erthen Taciof. Y1 May be ouzed as 0 Getechor, ampli=
FILAMENT vOLT#D.C	25 V	FILAMENT vOLT#D.C.1 1.25 1.28 .25 wolts
FILAME KT CURRENT €	5 A	FILAME KT CURRENT €.05 0,10 0,05 ampers
SCREEM VOLT. fpax.? = - &	7.5 V	SCREEM VOLT. fpax.? = - &7.5 Wolts
GRID VOLT. s#) S	-3 V	GRID VOLT. s#) S -3 Wolts
SCREEN CURREKT =	4 A	SCREEN CURREKT = - 04 Williampara
Plate—Filansent Fa2	1.1 pF	Plate—Filansent Fa2 1.1 - ppf
Ingut = z	1.3 pF	Ingut = z 1.3 ppf
Output = =	3 pF	Output = = 3 upf
shunt Fésistors ¢f	25 ohm	shunt Fésistors ¢f 25 ohms macglh gnould be cpnnected

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AMPLIFICAT	4 A	AMPLIFICAT 108 FACTOR 16 12 4EL

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	135 V	Published handbook rating
Plate voltage	135 V	ClassA
Control-grid bias	5 V	ClassA
Plate current	2 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	20800 ohm	Published handbook characteristic
Transconductance	650 μ S	Published handbook characteristic
Heater/filament voltage	1.25 V	Published heater/filament rating
Heater/filament current	50 mA	Published heater/filament rating



SOURCE DATA APPENDIX

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	UHF Oscillator
Control-grid voltage	-5 V	UHF Oscillator
Plate current	2 mA	UHF Oscillator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	13.5	Section1
Transconductance	650 μ S	Section1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	1.25 V	—
HeaterOrFilamentCurrent	50 mA	—
Application	Dry-cell battery RF service	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	1.25 V	Nominal
Filament current	50 mA	Nominal
Maximum DC plate voltage	135 V	Amplifier

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC plate voltage	135 V	ClassA
DC grid voltage	-5 V	ClassA
DC plate current	2 mA	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.2 pF	No external shield
Grid-to-filament capacitance	0.3 pF	No external shield
Plate-to-filament capacitance	0.7 pF	No external shield

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	13.5	ClassA
Plate resistance	20800 ohm	ClassA; approximate
Transconductance	650 uS	ClassA