

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

7552

Voltage - Triode (single high frequency) electronic tube

High-mu ceramic-metal pencil triode for low-noise UHF cathode-drive amplification to 1 GHz and above in mobile and aircraft equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 225 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	3000 Ω
TRANSCONDUCTANCE	0.0135 S
AMPLIFICATION FACTOR	80
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	25 mA
High-mu low-noise RF triode.	

High-mu ceramic-metal pencil triode for low-noise UHF cathode-drive amplification to 1000 MHz and above in mobile/aircraft equipment.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	6.3 V	—
HeaterOrFilamentCurrent	225 mA	—
MaximumOperatingFrequency	1000 MHz	Approximate/useful limit
OperationalAltitude	100000 ft	WithoutPressurization
Noise Figure	16.5 dB	Published table condition

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 3 of 7

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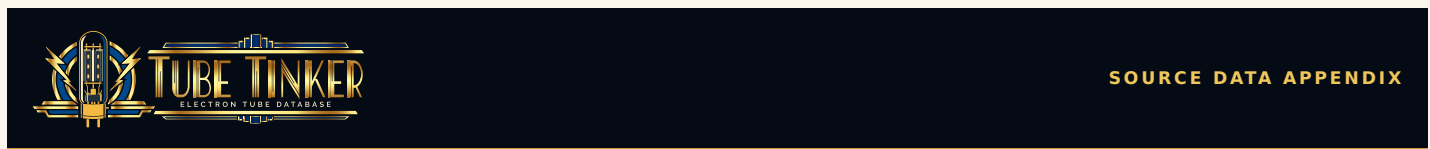
1971 RCA HB3 BINDER 3 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	225 mA	—
Plate supply voltage	125 V	LowNoiseRF
Cathode resistor	50 ohm	LowNoiseRF
Plate current typical	13 mA	LowNoiseRF
Power gain minimum	13 dB	550MHz

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Noise figure maximum	7.5 dB	550MHz
Maximum plate voltage	250 V	—
Maximum plate current	25 mA	—
Maximum plate dissipation	2.5 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor minimum	60	EquipmentDesign
Amplification factor maximum	100	EquipmentDesign
Transconductance minimum	10000 μ S	EquipmentDesign
Transconductance maximum	17000 μ S	EquipmentDesign



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 BINDER 6 OF 7

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	80	UHF pencil-triode service
Transconductance	13500 μ S	UHF pencil-triode service
Grid-to-Plate Capacitance	2.4 pF	UHF pencil-triode service
Grid-to-Cathode-and-Heater Capacitance	4.4 pF	UHF pencil-triode service
Plate-to-Cathode-and-Heater Capacitance	0.04 pF	UHF pencil-triode service
Cathode Warm-Up Time	10 s	UHF pencil-triode service

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	250 V	UHF pencil-triode service

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Cathode Current	25 mA	UHF pencil-triode service
Plate Dissipation	2.5 W	UHF pencil-triode service

TUBE TINKER

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and their source documents.

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