

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

7553

Voltage - Triode (single high frequency) electronic tube

High-mu ceramic-metal pencil triode for low-noise RF amplifier service through the UHF and microwave region.

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	0.013 S
AMPLIFICATION FACTOR	80
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	25 mA
High-mu ceramic-metal pencil RF triode.	

High-mu ceramic-metal pencil triode for low-noise RF amplifier service through the microwave/UHF region.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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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	14 dB	550MHz
Noise figure maximum	7 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 uS	EquipmentDesign
Transconductance maximum	16000 uS	EquipmentDesign

TUBE TINKER

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and their source documents.

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