



ELECTRONIC TUBE REFERENCE

20A1

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

HEXODE-TRIODE

Brimar 20A1 triode-hexode radio frequency converter with shared cathode and separate oscillator section.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Brimar 1948 20A1 triode oscillator, typical anode voltage 100 V, current 2.3 mA, grid resistor 50 k Ω , oscillator grid current 0.25 mA. Common cathode with hexode. Typical values are not maximum ratings; no intrinsic gm, mu or rp stated.

SECTION2 Hexode

PLATE RESISTANCE 700000 Ω

Brimar 1948 20A1 hexode mixer, typical anode voltage 250 V, anode current 2.2 mA, screen g2+g4 voltage 80 V, screen current 3.0 mA, control-grid bias -1.5 V, anode impedance 0.7 M Ω and conversion conductance 0.00065 A/V. Conversion conductance not conventional transconductance. No maximum ratings specified.

Triode-hexode frequency changer.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1948 Brimar Radio Valve Manual

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

1948 BRIMAR RADIO VALVE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	4 V	—
HeaterOrFilamentCurrent	1.2 A	—

1948 BRIMAR RADIO VALVE MANUAL

Section 2 · Hexode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion Conductance	650 μ S	—

TUBE TINKER

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