



ELECTRONIC TUBE REFERENCE

2103

Voltage - Dual Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-PENTODE

Battery double pentode designed specifically for push-pull audio-output power service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	2 V / 260 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode

TRANSCONDUCTANCE	0.0016 S
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Brimar 2103 directly heated battery double-pentode for push-pull audio power output, 2 V 0.26 A filament shared by both physical sections. Manufacturer gives 135 V anode, 135 V screen, -7.5 V control-grid bias, anode current 4.0 mA, screen current 1.2 mA and gm 1.6 mA/V for the specified service. Two-section push-pull amplifier output 0.6 W into optimum 24 kΩ anode-to-anode load. These published voltages are operating conditions, not explicitly absolute maximum ratings. Second pentode separately represented.

SECTION2 Pentode

TRANSCONDUCTANCE	0.0016 S
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Second physically separate pentode in Brimar 2103 battery push-pull double-pentode output valve. Direct 2 V 260 mA total filament. Brimar published nominal amplifier characteristics of 135 V plate and screen, -7.5 V grid, 4 mA anode, 1.2 mA screen and 1.6 mA/V mutual conductance; 0.6 W total push-pull output with 24 kΩ plate-to-plate load. These are operating characteristics rather than specified maximum limits. Two physical pentode rows retained.

Battery double pentode intended for push-pull output service.



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	2 V	—
HeaterOrFilamentCurrent	260 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	0.6 W	PushPull

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