



ELECTRONIC TUBE REFERENCE

LN309

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Triode/power-pentode combination for compact audio amplifiers, integrating voltage gain and loudspeaker output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	12.6 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	45000 Ω
TRANSCONDUCTANCE	0.0047 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	5.4 W
MAXIMUM SCREEN DISSIPATION	1.2 W
<i>Pentode system.</i>	

SECTION2 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3.5 W
<i>Triode system.</i>	

Combined triode-pentode with audio-power pentode and voltage-amplifier triode systems.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode Grid-Anode Capacitance	0.05 pF	—
Pentode Grid-TriodeGrid Capacitance	0.03 pF	—
Pentode Grid-All Capacitance	6 pF	—
Pentode Anode-TriodeGrid Capacitance	0.2 pF	—
Pentode Anode-TriodeCathode Capacitance	0.3 pF	—
Triode Anode-PentodeAnode Capacitance	1.9 pF	—
Triode Anode-PentodeGrid Capacitance	0.12 pF	—
Triode Anode-All Capacitance	6.9 pF	—
Pentode Class-A Output Power	2.1 W	ClassA
Pentode Push-Pull Output Power	5.4 W	ClassAB;PushPull;TwoTubes
Cascade Amplifier Output Power	2.1 W	TriodeDrivesPentode

TUBE TINKER

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