



ELECTRONIC TUBE REFERENCE

N709

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

EL84-family high-slope Marconi audio power pentode for compact receiver and amplifier output stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 760 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	3800 Ω
TRANSCONDUCTANCE	0.0113 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	65 mA
<i>Published ratings and characteristics promoted from the approved source.</i>	

Miniature output pentode with equipotential cathode for low-frequency power amplification in HI-FI audio output stages; co-designated EL84.

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
Heater voltage	6.3 V	—
Heater current	760 mA	—
Maximum plate voltage	300 V	—
Maximum screen voltage	300 V	—
Maximum plate dissipation	12 W	—
Maximum screen dissipation	2 W	—
Typical Class-A plate voltage	250 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	11300 uS	—
Plate resistance	3800 ohm	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	High-slope output pentode for AC receiver and amplifier output stages.	—

2026 Genalex Rebrand

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

2026 GENALEX REBRAND
Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	40–54 mA	Plate 250 V; screen 250 V; grid -6.6 V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	3 W	Plate 250 V; screen 250 V; load 5.2 kohm; ClassA;OneTube