

PL8432

Power - Beam (NOT sweep) (over 1000V 100W) electronic tube

Compact ceramic-envelope 1000-watt beam pentode designed for linear RF and high-power amplifier service, with kilowatt-class useful output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 8.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.023 S
AMPLIFICATION FACTOR	3.4
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	750 V
MAXIMUM PLATE DISSIPATION	1000 W
MAXIMUM GRID DISSIPATION	5 W
Highest reliable published rating promoted; additional values and operating/application details retained as parameter rows.	

The Penta PL8432 is a compact ceramic-envelope 1000 w beam pentode for linear rf and high-power amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Penta Labs Power Tubes

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

1965 PENTA LABS POWER TUBES

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6 V	—
Heater/filament current	8.2 A	—
Amplification factor	3.4	—
Transconductance	23000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	3000 V	—
Maximum screen voltage	750 V	—
Maximum plate dissipation	1000 W	—
Maximum control-grid dissipation	5 W	—
Source language	English	—
Minimum cathode heating time	3 min	—
Useful linear RF output	1500 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	0.09 pF	—
Input capacitance	42 pF	—
Output capacitance	20 pF	—

APPLICATION				
PARAMETER	PUBLISHED VALUE			CONDITION / NOTE
Primary application	Compact ceramic-envelope 1000 W beam pentode for linear RF and high-power amplifier service.			—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—
Electrode structure	Pentode	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

