

PL177WA

Power - Beam (NOT sweep) electronic tube

Ruggedized beam pentode designed for low-distortion linear RF and audio power service, a severe-service version of the PL177A family.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6 V / 3.2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0045 S
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	75 W
MAXIMUM GRID DISSIPATION	5 W
Highest reliable published rating promoted; additional values and operating/application details retained as parameter rows.	

The Penta PL177WA is a ruggedized version of the pl177a beam pentode for low-distortion linear rf/audio 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	3.2 A	—
Amplification factor	5	—
Transconductance	4500 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	2000 V	—
Maximum screen voltage	600 V	—
Maximum plate dissipation	75 W	—
Maximum control-grid dissipation	5 W	—
Source language	English	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	0.06 pF	—
Input capacitance	7.5 pF	—
Output capacitance	4.2 pF	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	Ruggedized version of the PL177A beam pentode for low-distortion linear RF/audio service.	—
Ruggedized version of	PL177A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Radiation/convection or source-specific	—
Electrode structure	Pentode	—