



ELECTRONIC TUBE REFERENCE

PL6775

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Ruggedized forced-air-cooled 4-400A-class power tetrode designed for RF, linear, and audio amplifier service to approximately 110 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	5 V / 14.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	5.1
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM GRID DISSIPATION	10 W
Highest reliable published rating promoted; additional values and operating/application details retained as parameter rows.	

The Penta PL6775 is a ruggedized 4-400a-class power tetrode for rf, linear, and audio 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 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	—
Heater/filament current	14.5 A	—
Amplification factor	5.1	—
Transconductance	4000 uS	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	4000 V	—
Maximum screen voltage	800 V	—
Maximum plate dissipation	400 W	—
Maximum control-grid dissipation	10 W	—
Source language	English	—
Maximum frequency for full ratings	110 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	0.12 pF	—
Input capacitance	12.5 pF	—
Output capacitance	4.5 pF	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Primary application	Ruggedized 4-400A-class power tetrode for RF, linear, and audio amplifier service.	—
Replacement family	4-400A	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electrode structure	Tetrode	—

TUBE TINKER

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