

ELECTRONIC TUBE REFERENCE

R123

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Long-life professional power-amplifier pentode providing approximately 2 W output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	18 V / 400 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0085 S
MAXIMUM PLATE VOLTAGE	225 V
MAXIMUM SCREEN VOLTAGE	225 V
MAXIMUM PLATE DISSIPATION	8 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	45 mA
Pentode section; promoted values are taken from the approved source where explicitly published.	

Long-life power-amplifier pentode.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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

1953 LA RADIOTECHNIQUE

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Indirect (cathode isolee du filament)	18 V	Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	Pentode
Screen-grid voltage	200 V	Pentode
Control-grid voltage	-5 V	Pentode
Screen-grid current	5 mA	Pentode
Plate resistance	0 ohm	Pentode
Output power	2 W	Pentode
Plate voltage	225 V	Pentode
Screen-grid voltage	225 V	Pentode
Plate dissipation	8 W	Pentode
Screen-grid dissipation	1 W	Pentode
Cathode current	45 mA	Pentode
Grid-circuit resistance 1	1 Mohm	Pentode
Resistance entre filament et cathode Rkf	5000 ohm	Pentode
Heater-cathode voltage	50 V	Pentode
Control-grid voltage	5 V	Pentode
Plate current	35 mA	Pentode
Load impedance	7500 ohm	Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	14 pF	Pentode
Output capacitance	13 pF	Pentode
Coupling capacitance	5 pF	Pentode