



ELECTRONIC TUBE REFERENCE

7733

Voltage Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Wideband pentode amplifier designed as a high-reliability replacement for 12BY7 and 12BY7A. It combines broadband signal amplification with enhanced reliability for professional electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E9-1 / 9BF	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	90000 Ω
TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	190 V
MAXIMUM PLATE DISSIPATION	6.5 W
MAXIMUM SCREEN DISSIPATION	1.2 W
<i>Wideband pentode.</i>	

Wideband pentode amplifier; high-reliability replacement for 12BY7/12BY7A.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 CBS Hytron

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

1960 CBS HYTRON

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance maximum	0.063 pF	—
Input capacitance	10.7 pF	—
Output capacitance	4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen-grid voltage	180 V	ClassA
Cathode bias resistor	100 Ohm	ClassA

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	24 mA	—
Screen-grid current	5 mA	—
Amplification factor g ₁ -g ₂	31.5 ratio	—