

HIGH-TRANSCONDUCTANCE PENTODE TYPE 12BV7

The 12BV7 is a high-transconductance pentode type designed for service as video amplifier. This type is capable of supplying large output voltage across a low value of load resistance with a low supply voltage.

ELECTRICAL

Cathode.....	Coated Unipotential		
Heater:	Series	Parallel	
Voltage.....	12.6	6.3	Volts
Current.....	0.3	0.6	Ampere
Direct Interelectrode Capacitances (Unshielded):			
Grid to Plate.....	0.055		$\mu\mu\text{f}$
Input.....	11.0		$\mu\mu\text{f}$
Output.....	3.0		$\mu\mu\text{f}$

MECHANICAL

Bulb.....	T-6½
Base.....	Miniature 9-pin (JEDEC E9-1)
Outline.....	6-3
Basing.....	9BF
Mounting Position.....	Any

DESIGN-CENTER VALUES

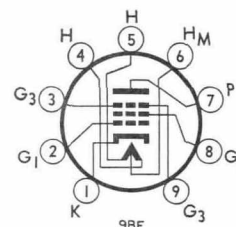
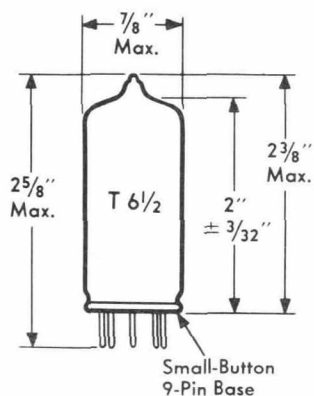
Plate Voltage.....	300	max.	Volts
Screen Voltage.....	175	max.	Volts
Plate Dissipation.....	6.25	max.	Watts
Screen Dissipation.....	1.0	max.	Watt
Control Grid Resistance:			
Fixed Bias.....	0.25	max.	Megohm
Cathode Bias.....	1.0	max.	Megohm
Control Grid Voltage:			
Negative.....	50	max.	Volts
Heater-Cathode Voltage			
Heater Negative with			
Respect to Cathode			
Total DC + Peak.....	200	max.	Volts
Heater Positive with			
Respect to Cathode			
DC Component.....	100	max.	Volts
DC + Peak.....	200	max.	Volts

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	250	Volts
Screen Voltage.....	150	Volts
Cathode Bias Resistor.....	68	Ohms
Transconductance.....	13000	μmhos
Plate Resistance.....	85000	Ohms
Grid 1 Cutoff Voltage (Note 1).....	-12	Volts
Plate Current.....	27	Ma.
Screen Current.....	6.0	Ma.
Amplification Factor (Triode Connected).....	28	—

NOTE

1. For plate current of 20 microamperes.



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