

SHARP-CUTOFF PENTODE TYPE 6EW6

The 6EW6 is a 7-pin miniature sharp-cutoff pentode type designed for service as intermediate-frequency amplifiers in television receivers. They feature very high transconductance combined with low interelectrode capacitance values. Separate pins are provided for grid 3 and the cathode to permit the use of an unbypassed cathode resistor to minimize the effects of regeneration.

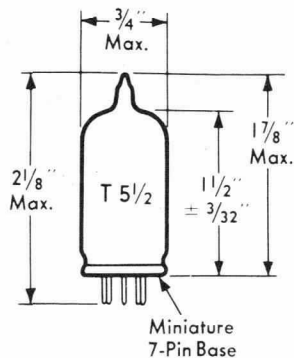
ELECTRICAL

Cathode	Coated Unipotential
Heater:	
Voltage (ac or dc)	$6.3 \pm 10\%$ Volts
Current	0.40 Ampere
Direct Interelectrode Capacitances:	

	Unshielded	Shielded (Note 1)
Grid 1 to Plate	0.04	0.03 max. pF
Input	10	10 pF
Output	2.4	3.4 pF

MECHANICAL

Bulb	T-5½
Base	Miniature, 7-Pin (JEDEC E7-1)
Outline	5-2
Basing	7CM
Mounting Position	Any



MAXIMUM RATINGS

Design Maximum Values

Plate Voltage	330 max. Volts
Grid 2 Supply Voltage	330 max. Volts
Grid 2 Voltage	See JEDEC J5-C4-2

Rating Chart

Plate Dissipation	3.1 max. Watts
Grid 2 Input	0.65 max. Watt

Heater-Cathode Voltage:

Heater Negative with Respect to Cathode

Total DC and Peak	200 max. Volts
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Heater Positive with Respect to Cathode

DC Component	100 max. Volts
DC + Peak	200 max. Volts

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	125 Volts
Grid 3 (Suppressor)	Connected to Cathode at Socket
Grid 2 Voltage	125 Volts
Cathode-Bias Resistor	56 Ohms
Plate Resistance (Approx.)	0.20 Megohm
Transconductance	14000 μ mhos
Grid 1 Cutoff Bias (Note 2)	-3.5 Volts
Plate Current	11 mA
Grid 2 Current	3.2 mA

NOTES

1. With JEDEC Shield No. 316 connected to cathode.
2. For plate current of 20 microamperes.

