

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Heater to Cathode	2.7 Pf
Plate to Cathode and Heater	5.5 Pf
Cathode to Plate and Heater	8.0 Pf

RATINGS (Design Maximum Rating System)**Damper Service**

Peak Inverse Plate Voltage ⁽²⁾ (Max.)	3300 Volts
Plate Dissipation (Max.)	4 Watts
Steady State Peak Current (Max.)	840 Ma
DC Plate Current (Max.)	140 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for Ib = 250 Ma	21 Volts
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NOTES:

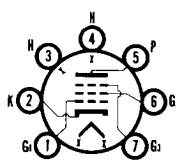
- (1) Pin 5, 6, 8, and 9 should not be used as tie points.
 (2) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.

6BJ6**6BJ6A****RF/IF AMPLIFIER****Remote Cutoff Pentode**

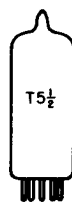
Construction	Miniature T-5½
Base	Button 7 Pin, E7-1
Basing	.7CM
Outline	.5-2
Maximum Diameter	.0.750 In.
Maximum Seated Height	.1.875 In.
Maximum Overall Height	.2.125 In.

ELECTRICAL DATA**HEATER OPERATION**

Heater Voltage	
Heater Current	
Maximum Heater-Cathode Voltage	



7CM



T5½
 6.3 Volts
 150 Ma
 90 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Shielded ⁽¹⁾	Unshielded
Grid No. 1 to Plate (Max.)	0.0035	0.0035 Pf
Input: g1 to (h + k + g2 + g3 + IS)	4.5	4.5 Pf
Output: p to (h + k + g2 + g3 + IS)	5.5	5.5 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	300 Volts
Grid No. 2 Supply Voltage (Max.)	300 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Positive Grid No. 1 Voltage (Max.)	0 Volt
Negative Grid No. 1 Voltage (Max.)	50 Volts
Plate Dissipation (Max.)	3.0 Watts
Grid No. 2 Dissipation (Max.)	0.6 Watt

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Voltage	100	250 Volts
Grid No. 2 Voltage	100	100 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket	
Grid No. 1 Voltage	-1.0	-1.0 Volt
Plate Current	9	9.2 Ma
Grid No. 2 Current	3.5	3.3 Ma
Transconductance	3650	3600 μmhos
Plate Resistance	0.25	1.3 Megohms
Ec1 for Gm = 10 μmhos (Approx.)	-20	-20 Volts

NOTE:

- (1) Shield No. 306 connected to Pins 2 and 7.

6BJ6A (only)

The 6BJ6A, except for controls on formation of interface impedance, is identical to Type 6BJ6. The interface impedance control consists of a life test conducted for 500 hours with the filament operating with 6.9 volts imposed. The other tube elements are unconnected simulating operation at cutoff conditions. Following life test the sample tubes are measured at conditions Ef = 5.7 V; Eb = Ec2 = Ec3 = 70 V DC; and Ec1 adjusted for Ib = 4.0 Ma DC. The maximum allowable value for interface impedance is 70 Ohms.