

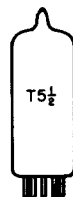
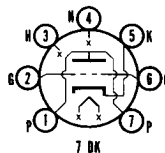
Plate Current	12.5 Ma
Grid No. 2 Current	3.2 Ma
Transconductance	7800 μ mhos
Plate Resistance (Approx.)	0.3 Megohm
Grid No. 1 Voltage for $I_b = 20 \mu$ a	-6 Volts
I_b at $E_{c1} = -3$ Volts, $R_k = 0$	2.0 Ma
Diode	
Diode Plate Voltage for Diode Current of 50 Ma ⁽²⁾	10 Volts

NOTES:

- (1) Shield No. 315.
- (2) Test condition only. Operating conditions must not exceed the design center rating.

6AN4**UHF MIXER OR AMPLIFIER****High Mu Triode**

Construction	Miniature T-5½
Base	Button 7 Pin
Basing	7DK
Outline	5-1
Maximum Diameter	0.750 In.
Maximum Seated Height	1.500 In.
Maximum Overall Height	1.750 In.

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage.....	6.3 Volts
Heater Current	225 Ma
Maximum Heater-Cathode Voltage	
Heater Negative With Respect to Cathode	
Total DC and Peak.....	200 Volts
Heater Positive With Respect to Cathode	
DC	100 Volts
Total DC and Peak.....	200 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Shielded ⁽¹⁾	Unshielded
Grid to Plate	1.7	1.7 Pf
Input	3.3	2.9 Pf
Output	1.8	0.25 Pf
Heater to Cathode ⁽²⁾	2.9	3.0 Pf
Grid to Cathode ⁽²⁾	2.6	2.6 Pf
Plate to Cathode ⁽²⁾	0.18	0.20 Pf
Grounded Grid Operation		
Input	5.7	5.5 Pf
Output	3.4	1.8 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	300 Volts
Plate Dissipation (Max.)	4 Watts
Cathode Current (Max.).....	30 Ma
Grid Circuit Resistance	
Fixed Bias (Max.)	0.1 Megohm
Cathode Bias (Max.)	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A Amplifier**

Plate Voltage	200 Volts
Cathode Bias Resistor	100 Ohms
Plate Current	13 Ma
Transconductance	10,000 μ mhos
Amplification Factor	70
Grid Voltage for $I_b = 20 \mu$ a	-7 Volts

Mixer Service

Plate Voltage	125 Volts
Cathode Bias Resistor	270 Ohms
Plate Current	7 Ma
Oscillator Injection Voltage (RMS).....	1.4 Volts
Conversion Conductance	2900 μ mhos

NOTES:

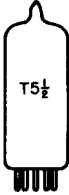
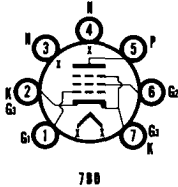
- (1) Shield No. 316.
- (2) Measured between specified elements only. When external shield is used, it shall be grounded.

VIDEO AMPLIFIER

6AN5

Beam Pentode

Construction Miniature T-5½
Base Button 7 Pin, E7-1
Basing 7BD
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 6.3 Volts
Heater Current 450 Ma
Maximum Heater-Cathode Voltage 90 Volts

DIRECT INTERELECTRODE CAPACITANCES

Grid No. 1 to Plate 0.075 Pf
Input 9.0 Pf
Output 4.8 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.) 120 300 Volts
Grid No. 2 Voltage (Max.) 120 300 Volts
Cathode Current (Max.) 50 20 Ma
Plate Dissipation (Max.) 4.2 1.7 Watts
Grid No. 2 Dissipation (Max.) 1.4 0.56 Watts
Grid No. 1 Circuit Resistance
Fixed Bias (Max.) 0.1 0.1 Megohm
Cathode Bias (Max.) 0.1 0.1 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage 120 Volts
Grid No. 2 Voltage 120 Volts
Cathode Resistor 120 Ohms
Plate Current 35 Ma
Grid No. 2 Current 12 Ma
Plate Resistance 12,500 Ohms
Transconductance 8000 μ mhos
Load Resistance 2500 Ohms
Power Output (Approx.) 1.3 Watts
Plate Current for $I_b = 1$ Ma -20 Volts

AVERAGE PLATE CHARACTERISTICS

