

NOTES:

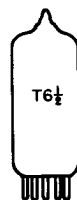
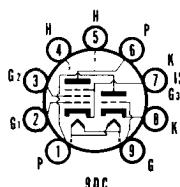
- (1) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
- (2) Section No. 1 is recommended for vertical oscillator service, and Section No. 2 is recommended for vertical deflection amplifier service.
- (3) In stages operating with grid leak bias, an adequate bias resistor or other suitable means is required to protect the tube in the absence of excitation.

6BL8/ECF80**4BL8/XCF80, 6LN8**

Color Television Type

VHF OSCILLATOR AND MIXER**Medium Mu Triode and Sharp Cutoff Pentode**

Construction Miniature T-6½
 Base Button 9 Pin, E9-1
 Basing 9DC
 Outline 6-2
 Maximum Diameter 0.875 In.
 Maximum Seated Height 1.938 In.
 Maximum Overall Height 2.188 In.

**ELECTRICAL DATA
HEATER OPERATION**

	4BL8/XCF80	6LN8	6BL8/ECF80
Heater Voltage.....	4.6	6.0	6.3 Volts
Heater Current	600	450	430 Ma
Heater Warm-up Time	—	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			200 Volts
Total DC and Peak.....			
Heater Positive with Respect to Cathode			
DC			100 Volts
Total DC and Peak.....			200 Volts

DIRECT INTERELECTRODE CAPACITANCES**Triode Section**

Grid to Plate	1.5 Pf
Input: g1 to (k + pg3 + IS + h)	2.5 Pf
Output: p to (k + pg3 + IS + h)	1.8 Pf

Pentode Section

Grid No. 1 to Plate	0.025 Pf
Input: g1 to (k + g3 + IS + g2 + h).....	5.2 Pf
Output: p to (k + g3 + IS + g2 + h).....	3.4 Pf

Coupling

Pentode Plate to Triode Plate	0.07 Pf
Pentode Plate to Triode Grid.....	0.02 Pf
Pentode Grid No. 1 to Triode Plate	0.16 Pf

RATINGS (Design Maximum Rating System)**Pentode Section**

Plate Supply Voltage (Max.)	600 Volts
Plate Voltage (Max.)	275 Volts
Plate Dissipation (Max.)	1.9 Watts
Screen Supply Voltage (Max.)	600 Volts
Screen Voltage (Ik = 14 Ma) (Max.).....	175 Volts
Screen Voltage (Ik = 10 Ma) (Max.).....	200 Volts
Screen Dissipation (Max.) ⁽¹⁾	0.55 Watt
Cathode Current (Max.).....	16.5 Ma
Grid Series Resistance (Cathode Bias) (Max.)	1 Megohm
Grid Series Resistance (Fixed Bias) (Max.)	0.5 Megohm
Negative Grid Voltage (Ig1 = 0.3 µa) (Max.) ⁽²⁾	1.3 Volts

Triode Section

Plate Supply Voltage (Max.)	600 Volts
Plate Voltage (Max.)	275 Volts
Plate Dissipation (Max.)	1.7 Watts
Cathode Current (Max.).....	16.5 Ma
Grid Series Resistance (Max.).....	0.5 Megohm
Negative Grid Voltage (Ig = 0.3 µa) (Max.) ⁽²⁾	1.3 Volts