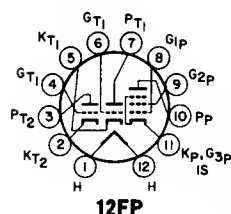


MEDIUM-MU TWIN TRIODE— SHARP-CUTOFF PENTODE

6BH11



Duodecar type used in color and black-and-white television receiver applications. The triode units are used for general-purpose applications, and the pentode unit is used for horizontal-deflection service. Outlines section, 8B; requires duodecar 12-contact socket. Heater: volts (ac/dc), 6.3; amperes, 0.8; maximum heater-cathode volts, ± 200 peak, 100 average.

Pentode Unit as Horizontal-Deflection Oscillator

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	350	volts
Grid-No.2 (Screen-Grid) Voltage	330	volts
Grid-No.1 (Control-Grid) Voltage:		
Positive-bias value	0	volts
Peak negative value	175	volts
Peak Cathode Current	300	mA
Average Cathode Current	20	mA
Plate Dissipation	2.5	watts
Grid-No.2 Input	0.55	watt

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid Voltage, Positive-bias Value	0	volts
Plate Dissipation	2.5	watts

CHARACTERISTICS

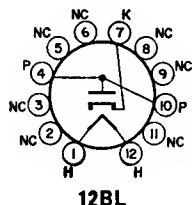
	Pentode Unit	Triode Unit	
Plate Voltage	125	125	volts
Grid-No.2 Voltage	125	—	volts
Grid-No.1 Voltage	—1	—1	volt
Amplification Factor	—	46	
Plate Resistance (Approx.)	200000	5400	ohms
Transconductance	7500	8500	μ mhos
Plate Current	12	13.5	mA
Grid-No.2 Current	4	—	mA
Grid-No.1 Voltage (Approx.) for plate current of 10 μ A	—8	—8	volts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	2.2	2.2	megohms
For cathode-bias operation	2.2	2.2	megohms

HALF-WAVE VACUUM RECTIFIER

6BJ3



Duodecar type used as damper tube in horizontal-deflection circuits of black-and-white television receivers. Outlines section, 8C; requires duodecar 12-contact socket. Socket terminals 5, 6, 8, and 9 should not be used as tie points. This tube, like other power-handling tubes, should be adequately ventilated. Heater: volts (ac/dc), 6.3; amperes, 1.2.

Damper Service

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage#	3300	volts
Peak Plate Current	840	mA
Average Plate Current	140	mA
Plate Dissipation	4	watts
Heater-Cathode Voltage:		
Peak value	+300	—3300
Average value	+100	—600

CHARACTERISTICS, Instantaneous Value

Tube Voltage Drop for plate current of 250 mA	21	volts
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Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).