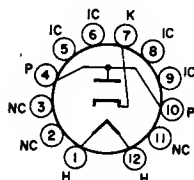


22BH3A

Refer to type 6BH3A.

**12FX****HALF-WAVE
VACUUM RECTIFIER****22BW3**

Duodecar type used as damper tube in horizontal-deflection circuits of television receivers. Outlines section, 8D; requires duodecar 12-contact socket.

Heater Voltage (ac/dc)	22.4	volts
Heater Current	0.45	ampere
Heater Warm-up Time	11	seconds
Direct Interelectrode Capacitances:		
Cathode to Heater and Plate	8.5	pF
Plate to Cathode and Heater	6	pF
Heater to Cathode	3.8	pF

Damper Service

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

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage#	5000	volts
Peak Plate Current	1100	mA
Average Plate Current	175	mA
Plate Dissipation	6.5	watts
Heater-Cathode Voltage:		
Peak value	+300 —5000	volts
Average value	+100 —900	volts

CHARACTERISTICS, Instantaneous Value

Tube Voltage Drop for plate current of 350 mA	32	volts
---	----	-------

Pulse duration must not exceed 15% of one horizontal scanning cycle (10 microseconds)

Refer to type 6DE4.

22DE4

Refer to chart at end of section.

22JG6

Refer to type 6JG6A.

22JG6A

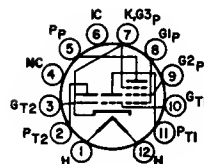
Refer to type 6JR6.

22JR6

Refer to type 6JU6.

22JU6

Refer to type 6KM6.

22KM6**DUAL TRIODE—
BEAM POWER TUBE****23Z9****12GZ**

Duodecar type used in combined vertical-deflection-oscillator and vertical-deflection-amplifier applications in television receivers. Outlines section, 8B; requires duodecar 12-contact socket. Heater: volts (ac/dc), 23; amperes, 0.45; average warm-up time, 11 seconds; maximum heater-cathode volts, ± 200 peak, 100 average.

Class A₁ Amplifier

CHARACTERISTICS	Triode Unit No.1	Triode Unit No.2	Beam Power Unit		
Plate Voltage	150	150	45	120	volts
Grid-No.2 (Screen-Grid) Voltage	—	—	110	110	volts
Grid-No.1 (Control-Grid) Voltage	—2	—5	0	—8	volts
Amplification Factor	43	20	—	—	
Plate Resistance (Approx.)	11000	8500	—	11700	ohms
Transconductance	3900	2350	—	7100	μ mhos
Plate Current	5.4	5.5	122	46	mA

	Triode Unit No.1	Triode Unit No.2	Beam Power Unit	
Grid-No.2 Current	—	—	16.5	3.5 mA
Grid-No.1 Voltage (Approx.) for plate current of 100 μ A	—	—	—	—25 volts
Grid Voltage (Approx.) for plate current of 10 μ A	—5.7	—11	—	— volts

Vertical-Deflection Oscillator and Amplifier

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

	Triode Unit No.1 Amplifier	Triode Unit No.2 Oscillator	Beam Power Unit Amplifier	
MAXIMUM RATINGS (Design-Maximum Values)				
Plate Voltage	330	250	250	volts
Peak Positive-Pulse Plate Voltage#	—	—	2000	volts
Grid-No.2 Voltage	—	—	200	volts
Peak Negative-Pulse Grid-No.1 Voltage	—	400	150	volts
Grid Voltage, Positive-bias value	0	—	—	volts
Plate Dissipation	125	1	7	watts
Grid-No.2 Input	—	—	1.8	watts
Peak Cathode Current	—	—	245	mA
Average Cathode Current	—	—	70	mA
Peak Plate Current	—	70	—	mA
Average Plate Current	—	20	—	mA

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation 0.5 1 1 megohm

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

24A

Refer to chart at end of section.

24JE6A

Refer to type 6JE6A.

24JE6B

Refer to type 6LQ6.

24LQ6

Refer to type 6LQ6.

24LQ6/24JE6B

Refer to type 6LQ6.

25A6

Refer to chart at end of section.

25A6GT

25A7GT

Refer to chart at end of section.

25AC5GT

Refer to chart at end of section.

25AV5GA

Refer to type 6AV5GA.

25AX4GT

Refer ty type 6AX4GTB.

25B5

Refer to chart at end of section.

25B6G

Refer to chart at end of section.

25B8GT

Refer to chart at end of section.

25BK5

Refer to chart at end of section.

25BQ6GT

Refer to chart at end of section.

25BQ6GTB/25CU6

Refer to type 6BQ6GTB/6CU6.

25C5

Refer to type 50C5.

25C6G

Refer to chart at end of section.

25CA5

Refer to type 6CA5.

25CD6GA

Refer to chart at end of section.

25CD6GB

Refer to type 6CD6GA.

25CG3

Refer to type 6CG3.

25CM3

Refer to type 6CM3.