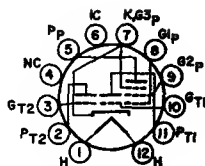


22JR6	Refer to type 6JR6.
22JU6	Refer to type 6JU6.
22KM6	Refer to type 6KM6.
22KV6A	Refer to type 6KV6A.
23JS6A	Refer to type 6JS6C.

23Z9**DUAL TRIODE—
BEAM POWER TUBE**

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.

**12GZ****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
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)	330	250	250	volts
Plate Voltage	—	—	2000	volts
Peak Positive-Pulse Plate Voltage#	—	—	200	volts
Grid-No.2 Voltage	—	400	150	volts
Peak Negative-Pulse Grid-No.1 Voltage	0	—	—	volts
Grid Voltage, Positive-bias value	125	1	7	watts
Plate Dissipation	—	—	1.8	watts
Grid-No.2 Input	—	—	245	mA
Peak Cathode Current	—	—	70	mA
Average Cathode Current	—	70	—	mA
Peak Plate Current	—	20	—	mA
Average Plate Current	—	—	—	—

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.
24BF11	Refer to type 6BF11.
24JE6A	Refer to chart at end of section. For replacement use type 24LQ6/24JE6C.
24JE6C	For replacement use type 24LQ6/24JE6C.
24JZ8	Refer to type 6JZ8.