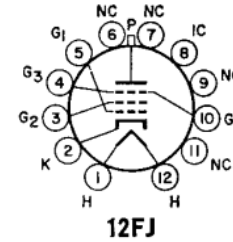


# 6JM6A

17JM6A

## BEAM POWER TUBE

Duodecar types used as horizontal-amplifier tubes in color and black-and-white television receivers. Outlines section, 39A; requires duodecar 12-contact socket. Type 17JM6A is identical with type 6JM6A except for heater ratings.



	6JM6A	17JM6A	
Heater Voltage (ac/dc)	6.3	16.8	volts
Heater Current	1.2	0.45	amperes
Heater Warm-up Time (Average)	—	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances:			
Grid No.1 to Plate		0.6	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3		16	pF
Plate to Cathode, Heater, Grid No. 2, and Grid No. 3		7	pF

### Class A<sub>1</sub> Amplifier

CHARACTERISTICS	Pentode Connection		Triode** Connection	
	5000	55	250	
Plate Voltage	5000	55	250	volts
Grid-No.3 (Suppressor-Grid)	Connected to cathode at socket			
Grid-No.2 (Screen-Grid) Voltage	150	150	150	volts
Grid-No.1 (Control-Grid) Voltage	—	0	—22.5	volts
Plate Resistance (Approx.)	—	—	15000	ohms
Transconductance	—	—	7300	μmhos
Plate Current	—	345*	65	mA
Grid-No.2 Current	—	30*	1.8	mA
Grid-No.1 Voltage (Approx.) for plate current of 1 μA	—100	—	—42	volts
Amplification Factor	—	—	4.4	

### MAXIMUM CIRCUIT VALUE

Grid-No.1-Circuit Resistance	1	megohm
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\* This value can be measured by a method utilizing a recurrent waveform such that the maximum ratings of the tube will not be exceeded.

\*\* Grid No.2 tied to plate.

### Horizontal-Deflection Amplifier

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

### MAXIMUM RATINGS (Design-Maximum Values)

DC Plate Supply Voltage	770	volts
Peak Positive-Pulse Plate Voltage#	6500	volts
Peak Negative-Pulse Plate Voltage	1500	volts
DC Grid-No.3 Voltage	70	volts

DC Grid-No.2 Voltage	220	volts
DC Grid-No.1 Voltage, Negative-bias value	55	volts
Peak Negative-Pulse Grid-No.1 Voltage	330	volts
Average Cathode Current	175	mA
Peak Cathode Current	550	mA
Plate Dissipation##	17.5	watts
Grid-No.2 Input	3.5	watts
Bulb Temperature (At hottest point)	220	°C

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

## A bias resistor or other means is required to protect the tube in absence of excitation.