

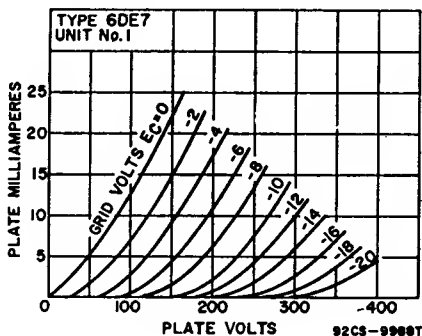
Vertical-Deflection Oscillator and Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)	Unit No.1 Oscillator	Unit No.2 Amplifier	
DC Plate Voltage	330	275	volts
Peak Positive-Pulse Plate Voltage#	—	1500	volts
Peak Negative-Pulse Grid Voltage	400	250	volts
Peak Cathode Current	77	175	mA
Average Cathode Current	22	50	mA
Plate Dissipation	1.5	7	watts

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:			
For grid-resistor bias or cathode-bias operation	2.2	2.2	megohms
# Pulse duration must not exceed 15% of a vertical scanning cycle (2.5 milliseconds).			

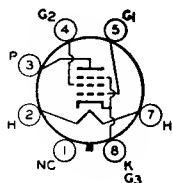


6DG6GT

BEAM POWER TUBE

Glass octal type used as output tube in audio-amplifier applications Outlines section, 13D; requires octal socket. This type may be supplied with pin 1 omitted.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	1.2	amperes
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances (Approx.):		
Grid No.1 to Plate	0.6	pF
Grid No.2 to Cathode, Heater, Grid No.2, and Grid No.3	15	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	10	pF

Class A₁ Audio-Frequency Power Amplifier

MAXIMUM RATINGS (Design-Center Values)		
Plate Voltage	200	volts
Grid-No.2 (Screen-Grid) Voltage	125	volts
Plate Dissipation	10	watts
Grid-No.2 Input	1.25	watts

TYPICAL OPERATION

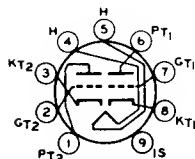
Plate Supply Voltage	110	200	volts
Grid-No.2 Supply Voltage	110	125	volts
Grid-No.1 (Control-Grid) Supply Voltage	-7.5	—	volts
Peak AF Grid-No.1 Voltage	7.5	8.5	volts
Cathode-Bias Resistor	—	180	ohms
Zero-Signal Plate Current	49	46	mA
Maximum-Signal Plate Current	50	47	mA
Zero-Signal Grid-No.2 Current	4	2.2	mA
Maximum-Signal Grid-No.2 Current	10	8.5	mA

Plate Resistance (Approx.)	13000	28000	ohms
Transconductance	8000	8000	μ mhos
Load Resistance	2000	4000	ohms
Total Harmonic Distortion	10	10	per cent
Maximum-Signal Power Output	2.1	3.8	watts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1	megohm
For cathode-bias operation	0.5	megohm



9AJ

MEDIUM-MU TWIN TRIODE

Miniature type used as a cascode amplifier in vhf color and black-and-white television tuners. Outlines section, 6B; requires miniature 9-contact socket.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.365	ampere

Heater-Cathode Voltage:

	Unit No. 1	Unit No. 2	
Peak value	—	—150	volts
Average value	50	—130	volts
Direct Interelectrode Capacitances:			
Grid to Plate	1.4	1.4	pF
Grid to Cathode, Heater, and Internal Shield	3.3	—	pF
Cathode to Grid, Heater, and Internal Shield	—	6.0	pF
Plate to Cathode, Heater, and Internal Shield	1.8	—	pF
Plate to Grid, Heater, and Internal Shield	—	2.8	pF
Plate to Cathode	—	1.8	pF
Heater to Cathode	—	2.7	pF
Grid to Heater	—	0.13	pF
Plate of Unit No. 1 to Plate of Unit No. 2	—	0.045	pF
Grid of Unit No. 2 to Plate of Unit No. 1	—	0.005	pF

Class A₁ Amplifier (Each Unit)

MAXIMUM RATINGS (Design-Center Values)

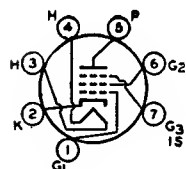
Plate Supply Voltage	130	volts
Cathode Current	25	mA
Plate Dissipation	1.8	watts
Negative Grid Voltage	50	volts
Plate Supply Voltage (cold condition)	550	volts

CHARACTERISTICS

Plate Voltage	90	volts
Grid Voltage	—1.3	volts
Amplification Factor	33	
Transconductance	12250	μ mhos
Plate Current	15	mA
Equivalent Noise Resistance	300	ohms

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance	1.0	megohm
Heater to Cathode Circuit Resistance	0.02	megohm



7CM

SHARP-CUTOFF PENTODE

3DK6, 4DK6, 12DK6

Miniature type used as if-amplifier tube in color and black-and-white television receivers. Outlines section, 5C; requires miniature 7-contact socket. Types 3DK6, 4DK6, and 12DK6 are identical with type 6DK6 except for heater ratings.

6DK6