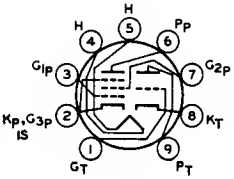
16A8

HIGH-MU TRIODE—POWER PENTODE



9EX

Miniature type used in television receiver applications. The triode unit is used as a vertical oscillator or as an af amplifier, and the pentode unit is used as a vertical output tube or as an audio output tube. Outlines section, 6G; requires 9-contact socket. Heater: volts (ac/dc), 16; amperes, 0.3; maximum heater-cathode volts, ±200.

Class A_1 Amplifier

MAXIMUM RATINGS (Design-Maximum Values)	Triode Unit	Pentode Unit	
Plate Supply Voltage	550	550	volts
Peak Plate Voltage*	600	2500	volts
Plate Voltage	250	250	volts
Peak Inverse Plate Voltage	—	500	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	550	volts
Grid-No.2 Voltage	—	250	volts
Cathode Current	15	50	mA
Plate Dissipation (Frame Output)	—	5	watts
Plate Dissipation (Audio Output)	—	7	watts
Grid-No.2 Input	—	1.8	watts
Peak Grid-No.2 Input	—	3.2	watts

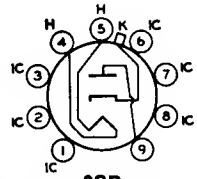
CHARACTERISTICS	Triode Unit	Pentode Unit				
Plate Voltage	100	100	170	200	200	volts
Grid-No.2 Voltage	—	100	170	200	200	volts
Grid-No.1 Voltage	0	—6	—11.5	—12.5	—16	volts
Amplification Factor	70	—	—	—	—	
Mu Factor, Grid No.2 to Grid No.1	—	10	9.5	9.5	9.5	
Plate Resistance	—	15000	16000	20500	20000	ohms
Transconductance	2500	6800	7500	6800	6400	μmhos
Plate Current	3.5	26	41	35	35	mA
Grid-No.2 Current	—	5	8	6.5	7	mA
MAXIMUM CIRCUIT VALUES						
Grid-No.1-Circuit Resistance:						
For fixed-bias operation	1			1		megohm
For cathode-bias operation	3			2		megohms

* With a maximum duty factor of 0.04 and maximum pulse duration of 0.8 milliseconds.

16AQ3 Refer to chart at end of section.

16AQ3/XY88

DIODE



9CB

Miniature type used as booster diodes in line-time-base circuits of transformerless television receivers. Outlines section, 7D; requires miniature 9-contact socket. Heater: volts (ac/dc), 16.4; amperes, 0.6; maximum heater-cathode volts, 6600 peak.

MAXIMUM RATINGS (Design-Center Values)		
Supply Voltage at zero current	550	volts
Supply Voltage	250	volts
Peak Plate Current	550	mA
Average Plate Current	220	mA
Plate Dissipation	5	watts
Peak Negative-Pulse Plate Voltage*	6000#	volts

* Under no conditions should an absolute maximum value of 7500 volts be exceeded.

The pulse duration must not exceed 22 per cent of a cycle, or a maximum of 18 microseconds.

16GK6 Refer to type 6GK6.

16GY5 Refer to type 6GY5.