## Half-Wave Vacuum Rectifier

For TV Damper Service in Equipment Having Series Heater-String Arrangement

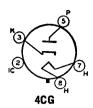
The 22DE4 is the same as the 6DE4 except for the following items:

Heater	for	Unipotential	Cathode:

leater, for unipotential cathode.	
Voltage (AC or DC)	volts
Current 0.45 ± 6%	amp
Warm-up time (Average)	sec

## HALF-WAVE VACUUM RECTIFIER

# 6DE4/6CQ4



Glass octal type used as damper tube in horizontal-deflection circuits of television receivers. Outlines section, 13G; requires octal socket. Socket terminals 1, 2, 4, and 6 should not be used as tie points. This tube, like other power-handling tubes, should be adequately ventilated. Types 17DE4 and 22DE4 are identical with type 6DE4/6CQ4 except for heater ratings.

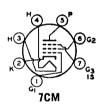
6DE4/6CQ4 17DE4 22DE4

Heater Voltage (ac/dc) Heater Current Heater Warm-up Time (Average)	6.3 1.6	17 0.6 11	22.4 0.45 11	volts amperes seconds
Direct Interelectrode Capacitances (Approx.): Plate to Cathode and Heater Cathode to Plate and Heater Heater to Cathode			8.5 11.5 4	pF pF pF
Damper Serv	/ice			
For operation in a 525-line,	30-frame	system		
MAXIMUM RATINGS (Design-Maximum Values)				
Peak Inverse Plate Voltage# Peak Plate Current Average Plate Current Plate Dissipation			5500 1100 180 6.5	volts mA mA watts
Heater-Cathode Voltage: Peak value Average value			5500 900	volts volts
CHARACTERISTIC Instantaneous Value Tube Voltage Drop for plate current of 350 mA			34	volts
# Pulse duration must not exceed 15% of a horizontal	zontal scan	ning cy	cle (10	microseconds).

## 6DE6

## SHARP-CUTOFF PENTODE

Miniature type used in the gain-controlled picture if stages of television receivers utilizing an intermediate frequency in the order of 40 MHz and as an rf amplifier in vhf television tuners. Outlines section, 5C; requires miniature 7-contact socket. Type 4DE6 is identical with type 6DE6 except for heater ratings.



	4DE6	6DE6	
Heater Voltage (ac/dc)	4.2	6.3	volts
Heater Current	0.45	0.3	ampere
Heater Current	11		seconds
Heater Warm-up Time (Average)	11		
Heater-Cathode Voltage: Peak value Average value		±200 max 100 max	volts volts
Direct Interelectrode Capacitances:	Unshielded	Shielded*	
Grid No.1 to Plate	0.025 max	0.015 max	рF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	6.5	6.5	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	2	3	pF
▲ With external shield connected to cathode.			

### Class A. Amplifier

MAXIMUM RATINGS (Design-Maximum Values)		
Plate Voltage	330	volts
Grid-No 3 (Suppressor-Grid) Voltage, Positive value	0	volts
Grid-No.2 (Screen-Grid) Supply Voltage	330	volts
Grid-No 2 Voltage	See o	curve page 300 volts
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 0	watts
Plate Dissipation	2.3	watts