



## SHARP-CUTOFF PENTODE

## 6AK5/ EF95

Miniature types used as rf or if amplifiers especially in high-frequency wide-band applications at frequencies up to 400 MHz. Outlines section, 5B; require miniature 7-contact socket.

Heater Voltage (ac/dc) .....	6.3	volts
Heater Current .....	0.175	ampere
Peak Heater-Cathode Voltage .....	±90 max	volts
Direct Interelectrode Capacitances (Approx.):*		
Grid No.1 to Plate .....	0.02 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield .....	4	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield .....	2.8	pF

\* With external shield connected to pin 2 or 7.

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

#### MAXIMUM RATINGS (Design-Center Values)

Plate Voltage .....	180	volts
Grid-No.2 (Screen-Grid) Voltage .....	See curve page 300	
Grid-No.2 Supply Voltage .....	180	volts
Grid-No.1 Voltage, Positive-bias value .....	0	volts
Plate Dissipation .....	1.7	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 90 volts .....	0.5	watt
For grid-No.2 voltages between 90 and 180 volts .....	See curve page 300	
Cathode Current .....	18	mA

#### CHARACTERISTICS

Plate Supply Voltage .....	120	180	volts
Grid-No.2 Supply Voltage .....	120	120	volts
Cathode-Bias Resistor .....	180	180	ohms
Plate Resistance (Approx.) .....	0.3	0.5	megohm
Transconductance .....	5000	5100	μmhos
Plate Current .....	7.5	7.7	mA
Grid-No.2 Current .....	2.5	2.4	mA
Grid-No.1 Voltage for plate current of 10 μA .....	-8.5	-8.5	volts