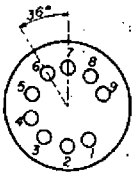
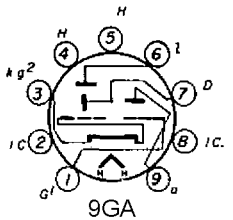
AMPEREX TUBE TYPE 6HU6/EM87

TENTATIVE DATA

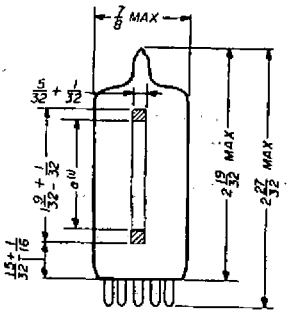
The 6HU6/EM87 is a combined amplifier and level indicator for tape recorder applications. The indicating pattern is a bar whose length varies with signal strength. The required control voltage to close the light pattern is 10 volts; when signal voltage is increased above 10 volts, the pattern overlaps as a warning against over-modulation.





PIN CONNECTIONS

1. GRID NO 1
2. INTERNALLY CONNECTED
3. CATHODE, GRID NO. 2
4. HEATER
5. HEATER
6. FLUORESCENT SCREEN
7. DEFLECTION ELECTRODE
8. INTERNALLY CONNECTED
9. PLATE



GENERAL CHARACTERISTICS

MECHANICAL

Bulb	T6-1/2
Base	Noval

ELECTRICAL

Heater Supply	Indirect, AC or DC; Series or Parallel
Heater Voltage	6.3 volts
Heater Current	300 ma

1 Negative value of "a" indicates overlapping. Grid bias voltage for "a" = 0 (shadow closed) can be reduced by reduction of the screen voltage such as by means of a series resistor.

6HU6/EM87

MAXIMUM RATINGS

Plate Voltage at Zero Plate Current	550 volts
Plate Voltage	300 volts
Deflection Electrode Voltage at Zero Current	550 volts
Deflection Electrode Voltage	300 volts
Fluorescent Screen Voltage at Zero Screen Current	550 volts
Fluorescent Screen Voltage	300 volts max. 170 volts min.
Plate Dissipation	0.6 watts
Cathode Current	5 ma
Grid Resistor	3 megohms
Heater to Cathode Voltage	250 volts
Heater to Cathode Resistance	100 k ohms
Grid Bias (I_g = + 0.3 μa)	-1.3 volts

OPERATING CHARACTERISTICS

Supply Voltage	250	250	250 volts
Fluorescent Screen Voltage	250	250	250 volts
Plate and Deflection Resistor	100	100	100 k ohms
Grid Leak Resistor	3	3	3 megohms
Grid Bias	0	-10	15 volts
Plate and Deflection Current	2.0	0.5	0.2 ma
Fluorescent Screen Current	1.0	1.8	2.0 ma
Shadow Section	0.83	0	-0.06 inch[1]

SHADOW LENGTH VS GRID BIAS