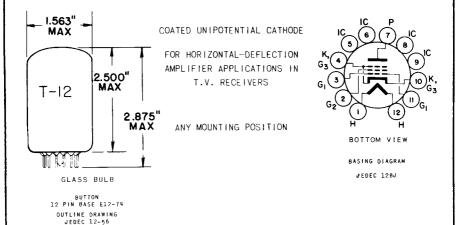
# BEAM PENTODE COMPACTRON



THE 6GE5 IS A BEAM-POWER PENTODE UTILIZING A T-12 ENVELOPE AND A 12 PIN BASE. IT IS DESIGNED PRIMARILY FOR USE AS THE HORIZONTAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS.

# DIRECT INTERELECTRODE CAPACITANCES - APPROX.

# WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE: (G1 TO P)	0.34	рf
INPUT: G1 TO (H+K+G2+B.P.)	16	рf
OUTPUT: P TO (H <sup>+</sup> k <sup>+</sup> G2 <sup>+</sup> B.P.)	7.0	рf

### HEATER CHARACTERISTICS AND RATINGS DESIGN MAXIMUM VALUES - SEE ELA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	1200	MA.
HEATER SUPPLY LIMITS: VOLTAGE OPERATION		6.3±0.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE HEATER POSITIVE WITH RESPECT DC COMPONENT TOTAL DC AND PEAK	TO CATHODE	100 200	VOLTS VOLTS
HEATER NEGATIVE WITH RESPECT TOTAL DC AND PEAK	TO CATHODE	200	VOLTS

CONTINUED ON FOLLOWING PAGE

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239 HORIZONTAL-DEFLICTION AMPLIFIER SERVICE \*

DC PLATE-SUPPLY VOLTAGE (BOOST + DC POWER SUPPLY))	7 <b>7</b> 0	VOLTS
PEAK POSITIVE PULSE PLATE VOLTAGE	6500	VOLTS
PEAK NEGATIVE PULSE PLATE VOLTAGE	1500	VOLTS
GRID #2 VOLTAGE	220	VOLTS
NEGATIVE DC GRID #1 VOLTAGE	55	VOLTS
PEAK NEGATIVE GRID #1 VOLTAGE	330	VOLTS
PLATE DISSIPATION <sup>A</sup>	17.5	WATTS
GRID #2 DISSIPATION	3.5	WATTS
DC CATHODE CURRENT	175	MA.
PEAK CATHODE CURRENT	550	MA.
GRID #1 CIRCUIT RESISTANCE	1.0	MEGOHMS
BULB TEMPERATURE AT HOTTEST POINT	220	°c

# TYPICAL OPERATING CHARACTERISTICS

## AVERAGE CHARACTERISTICS

PLATE VOLTAGE GRID #2 VOLTAGE GRID #1 VOLTAGE PLATE RESISTANCE, APPROX. TRANSCONDUCTANCE PLATE CURRENT GRID #2 CURRENT GRID #1 VOLTAGE, APPROX.	5000 150   	60 25 150 15 0 <sup>B</sup> -22. 18.000 7,300 345 6 27 - 1.8	O VOLTS  O VOLTS  O HMS  O ← μMHOS  O ← μA.
GRID #1 VOLTAGE, APPROX. $I_b$ = 1.0 MA. TRIODE AMPLIFICATION FACTOR G2 TIED TO PLATE, $E_b$ = $E_{c2}$ =150 V., $E_{c4}$ =-22.5 V.	100		2 ← VOLTS

FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

IN STAGES OPERATING WITH GRID LEAK BIAS, AN ADEQUATE CATHODE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

 $<sup>{\</sup>color{blue}B}_{\text{APPLIED}}$  for short interval (TWO SECONDS MAXIMUM) SO AS NOT TO DAMAGE TUBE.

<sup>--&</sup>gt;INDICATES A CHANGE.

<sup>\*</sup>INDICATES AN ADDITION.