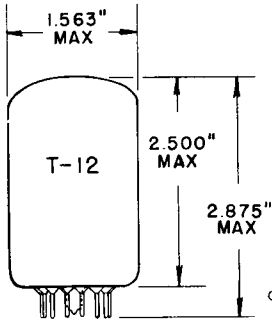


TUNG-SOL

PENTODE

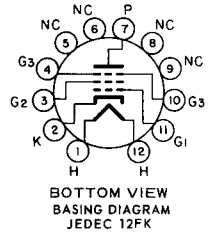
COMPACTRON



GLASS BULB  
12 PIN BASE E12-74  
OUTLINE DRAWING  
JEDEC 12-56

BEAM PENTODE  
FOR  
HORIZONTAL-DEFLECTION  
AMPLIFIER APPLICATIONS  
IN TV RECEIVERS

COATED UNIPOTENTIAL CATHODE  
ANY MOUNTING POSITION



THE 6JN6 IS A BEAM-POWER PENTODE IN THE T-12 COMPACTRON CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR USE AS THE HORIZONTAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. A SEPARATE CONNECTION IS PROVIDED FOR THE BEAM PLATES ( GRID 3 ) TO MINIMIZE "SNIVETS".

EXCEPT FOR HEATER CHARACTERISTICS AND RATINGS, THE 6JN6 IS IDENTICAL TO THE 12JN6.

#### DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE: G1 TO P	0.34	pf
INPUT: G1 TO ( H + K + G2 + G3 )	16	pf
OUTPUT: P TO ( H + K + G2 + G3 )	7.0	pf

#### HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	1.2	AMPS.
LIMITS OF APPLIED VOLTAGE		6.3 ± 0.6	VOLTS
MAXIMUM HEATER - CATHODE VOLTAGE:			
HEATER NEG. W/ RESPECT TO CATHODE			
TOTAL DC AND PEAK		200	VOLTS
HEATER POS. W/ RESPECT TO CATHODE			
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS

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## MAXIMUM RATINGS

DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239

HORIZONTAL-DEFLECTION AMPLIFIER SERVICE

DC PLATE - SUPPLY VOLTAGE ( BOOST + DC POWER SUPPLY )	770	VOLTS
PEAK POSITIVE PULSE PLATE VOLTAGE	6,500	VOLTS
PEAK NEGATIVE PULSE PLATE VOLTAGE	1,500	VOLTS
POSITIVE DC GRID 3 VOLTAGE	70	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

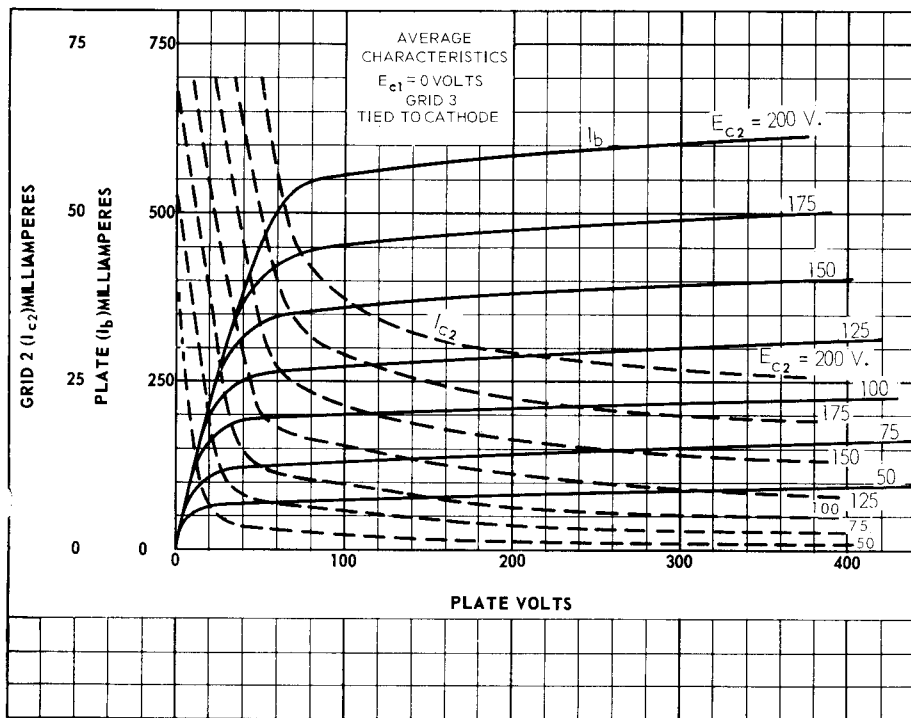
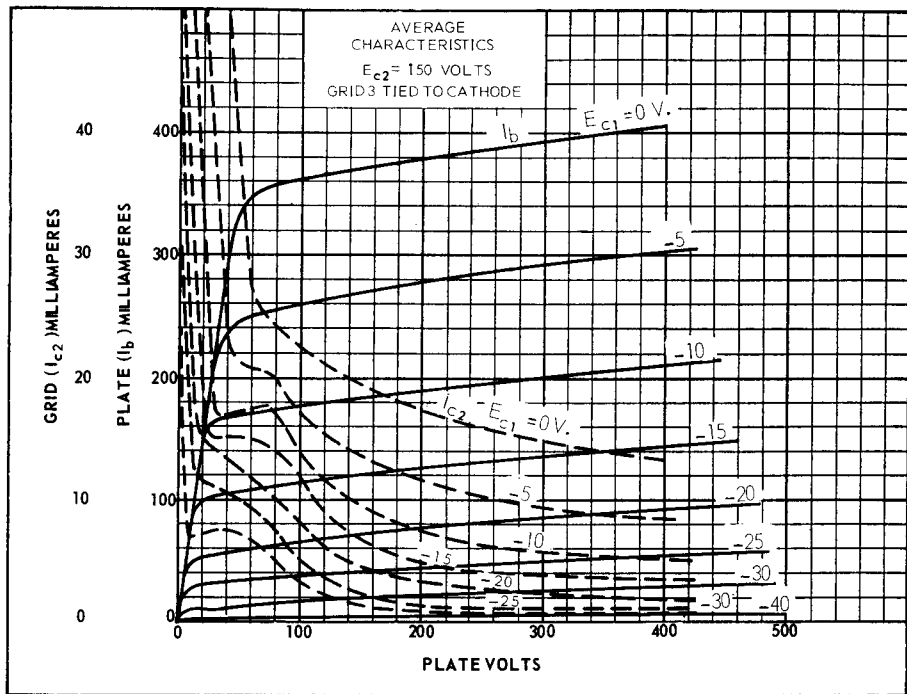
A - IN STAGES OPERATING WITH GRID-LEAK BIAS, AN ADEQUATE CATHODE-BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

## CHARACTERISTICS AND TYPICAL OPERATION

PLATE VOLTAGE	5,000	60	250	VOLTS
GRID 3 - CONNECTED TO CATHODE AT SOCKET				
GRID 2 VOLTAGE	150	150	150	VOLTS
GRID 1 VOLTAGE	-	0 <sup>B</sup>	-22.5	VOLTS
PLATE CURRENT	-	345	65	MA.
GRID 2 CURRENT	-	27	1.8	MA.
TRANSCONDUCTANCE	-	-	7,300	μMHOS
PLATE RESISTANCE - APPROX.	-	-	18,000	OHMS
GRID 1 VOLTAGE AT $I_b = 1.0$ MA. - APPROX.	-100	-	-42	VOLTS
TRIODE AMPLIFICATION FACTOR <sup>C</sup>	-	-	4.4	

B - APPLIED FOR SHORT INTERVAL ( 2 SECONDS ) SO AS NOT TO DAMAGE TUBE.

C - TRIODE CONNECTION ( GRID 2 TIED TO PLATE ) WITH  $E_b = E_{c2} = 150$  VOLTS AND  $E_{c1} = -22.5$  VOLTS



# 6JN6

