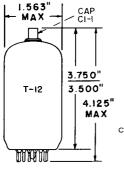
# TUMG-SOL -

## PENTODE

#### COMPACTRON



BEAM PENTODE FOR

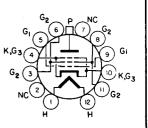
HORIZONTAL-DEFLECTION

AMPLIFIER APPLICATIONS

IN TELEVISION RECEIVERS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW BASING DIAGRAM JEDEC 12 FB

GLASS BULB BUTTON 12 PIN BASE E 12-74 OUTLINE DRAWING JEDEC 12-89

THE 6HF5 IS A BEAM-POWER PENTODE IN THE 12 PIN COMPACTRON CONSTRUCTION, IT IS DE-SIGNED PRIMARILY FOR USE AS THE HORIZONTAL-DEFLECTION AMPLIFIER IN COLOR TELE-VISION RECEIVERS.

## DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE ( G1 TO P )	0.56	рf
INPUT: G1 TO ( H + K + G2 + G3 )	24	pf
OUTPUT: P TO (H+K+G2+G3)	10	рf

## HEATER CHARACTERISTICS AND RATINGS

AVERAGE CHARACTERISTICS	6.3 VOLTS	2.25	AMPS.
LIMITS OF APPLIED VOLTAGE-AC OR DC		6.3 ± 0.6	VOLTS
HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHOR	DE		
DC COMPONENT		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHO	DE		
TOTAL DC AND PEAK		200	VOLTS

CONTINUED ON FOLLOWING PAGE

# TUNG-SOL -

## CONTINUED FROM PRECEDING PAGE

# MAXIMUM RATINGS DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239

DC PLATE-SUPPLY VOLTAGE - BOOST + DC POWER SUPPLY	990	VOLTS
PEAK POSITIVE PULSE PLATE VOLTAGE - ABSOLUTE MAX. VALUE	7,500	VOLTS
PEAK NEGATIVE PULSE PLATE VOLTAGE	1,100	VOLTS
GRID 2 VOLTAGE	190	VOLTS
PEAK NEGATIVE GRID 1 VOLTAGE	250	VOLTS
PLATE DISSIPATION A	28	WATTS
GRID 2 DISSIPATION	5.5	WATTS
DC CATHODE CURRENT	315	MA
PEAK CATHODE CURRENT	1,100	MA
GRID 1 CIRCUIT RESISTANCE	1.0	медонм
BULB TEMPERATURE AT HOTTEST POINT	225	0 C

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

## CHARACTERISTICS AN TYPICAL OPERATION

PLATE VOLTAGE	5,000	70	175	VOLTS
GRID 2 VOLTAGE	125	125	125	VOLTS
GRID 1 VOLTAGE	-	0	-25	VOLTS
PLATE CURRENT	-	570 B	125	MA
GRID 2 CURRENT	-	34 B	4.5	MA
TRANSCONDUCTANCE	-	-	11,300	<b>μ</b> MHOS
PLATE RESISTANCE - APPROX.	-	-	5,600	OHMS
GRID 1 VOLTAGE FOR 1b = 1.0 MA-APPROX.	-140	-	-54	VOLTS
TRIODE AMPLICATION FACTOR C	-	-	3	

B- VALUES MEASURED BY A METHOD INVOLVING A RECURRENT WAVE FORM SUCH THAT THE PLATE AND GRID 2 DISSIPATIONS WILL BE KEPT WITHIN RATINGS IN ORDER TO PREVENT DAMAGE TO THE TUBE.

C- GRID 2 TIED TO PLATE - Eb = Ec2 = 125 VOLTS, Ec1 = -25 VOLTS