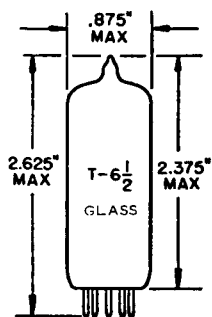
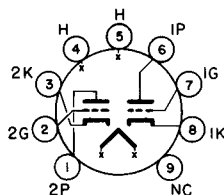


TUNG-SOL

TWIN TRIODE
MINIATURE TYPEOUTLINE DRAWING
JEDEC 6-3BASE 9 PIN BUTTON
JEDEC E9-1

FOR
USE IN MATRIXING CIRCUITS
OF COLOR T.V. RECEIVERS

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION

BASING DIAGRAM
JEDEC 9 LP

BOTTOM VIEW

THE 6GU7 IS A MEDIUM-MU TWIN TRIODE IN THE 9 PIN T-6½ ENVELOPE. IT IS DESIGNED FOR USE IN THE MATRIXING CIRCUITS OF COLOR T.V. RECEIVERS. THE 6GU7 CAN ALSO BE USED IN PHASE-INVERTER AND MUTIVIBRATOR CIRCUITS OR AS A GENERAL-PURPOSE AMPLIFIER TUBE.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

	UNIT #1	UNIT #2	
GRID TO PLATE	3.0	3.0	pf
GRID TO CATHODE AND HEATER	3.4	3.6	pf
PLATE TO CATHODE AND HEATER	0.44	0.34	pf
PLATE OF UNIT #1 TO PLATE OF UNIT #2	1.0	1.0	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES • SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	600	mA
HEATER WARM-UP TIME	APPROX.	11	SECONDS
LIMITS OF APPLIED VOLTAGE		6.3 ± 0.6	VOLTS
LIMITS OF SUPPLIED CURRENT		600 ± 40	mA
PEAK HEATER CATHODE VOLTAGE • EACH UNIT			
HEATER NEGATIVE WITH RESPECT TO CATHODE		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		200	VOLTS
DC COMPONENT		100	VOLTS

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MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

CLASS A₁ AMPLIFIER - EACH UNIT

PLATE VOLTAGE	330	VOLTS
GRID VOLTAGE:		
POSITIVE BIAS VALUE	0	VOLTS
PLATE DISSIPATION	3	WATTS
GRID - CIRCUIT RESISTANCE:		
FOR FIXED BIAS OPERATION	1	MEGOHM

CHARACTERISTICS

CLASS A₁ AMPLIFIER - EACH UNIT

PLATE VOLTAGE	250	VOLTS
GRID VOLTAGE	-10.5	VOLTS
PLATE CURRENT	11.5	mA
TRANSCONDUCTANCE	3,100	μMHOS
AMPLIFICATION FACTOR	17	
PLATE RESISTANCE	APPROX. 5,500	OHMS
PLATE CURRENT AT $E_c = -14$ VOLTS	4	mA
GRID VOLTAGE FOR $I_b = 50 \mu\text{A}$	APPROX. -23	VOLTS

