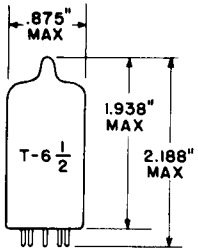
TUNG-SOL

DUO TRIODE
MINIATURE TYPE



GLASS BULB

MINIATURE BUTTON 9 PIN E9-1

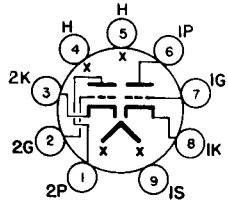
OUTLINE DRAWING

JEDEC 6-2

COATED UNIPOTENTIAL CATHODE

FRAME GRID RF AMPLIFIER AND OSCILLATOR MIXER

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM

JEDEC 9AJ

THE 6JK8 IS A DISSIMILAR DUO TRIODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED SPECIFICALLY FOR FM TUNERS.

DIRECT INTERELECTRODE CAPACITANCES

WITH SHIELD

	SECTION #1		SECTION #2	
GRID TO PLATE	1.4		.60	pf
INPUT: G TO (H+K+I.S.+E.S.)	3.0		5.0	pf
OUTPUT: P TO(H+K+I.S.+E.S.)	1.0		4.0	pf
HEATER TO CATHODE	2.8		2.8	pf
GRID TO GRID (MAX.)		.003		pf
PLATE TO PLATE (MAX.)		.009		pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	400	MA.
HEATER SUPPLY LIMITS:			
VOLTAGE OPERATION[B]		6.3±0.6	VOLTS
MAXIMUM HEATER CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		100	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		100	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

	OSCILLATOR SECTION #1	R-F AMP. SECTION #2	
PLATE VOLTAGE	165	200	VOLTS
PLATE DISSIPATION	1.0	2.0	WATTS
DC CATHODE CURRENT	22	22	MA.
NEGATIVE GRID VOLTAGE	50	50	VOLTS
GRID CIRCUIT RESISTANCE (SELF BIAS)	1.0	1.0	MEGOHMS

TYPICAL OPERATING CHARACTERISTICS

CLASS A_1 AMPLIFIER

	OSCILLATOR SECTION #1	R-F AMP. SECTION #2	
PLATE VOLTAGE	100	135	VOLTS
GRID VOLTAGE	-1.0	-1.2	VOLTS
PLATE CURRENT	5.3	10	MA.
TRANSCONDUCTANCE	6800	13 000	μMHOS
AMPLIFICATION FACTOR	55	70	
PLATE RESISTANCE (APPROX.)	8000	5400	OHMS
Ec FOR Ib = 20 μA. (APPROX.)	-4.4	---	VOLTS
Ec FOR Gm = 150 μMHOS (APPROX.)	---	-5.5	VOLTS
Ec FOR Gm = 1500 μMHOS APPROX.)	---	-2.8	VOLTS

[B] HEATER VOLTAGE SUPPLY VARIATIONS SHALL BE RESTRICTED TO MAINTAIN HEATER VOLTAGE WITHIN THE SPECIFIED VALUES.