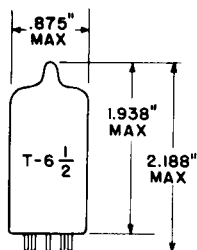


## TUNG-SOL

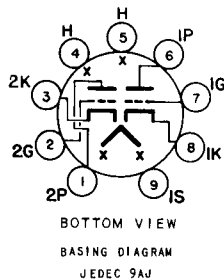
DUO TRIODE  
MINIATURE TYPE

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



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 <sup>B</sup>		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<sub>1</sub> 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
E <sub>c</sub> FOR I <sub>b</sub> = 20 μA. (APPROX.)	-4.4	---	VOLTS
E <sub>c</sub> FOR G <sub>m</sub> = 150 μMHOS (APPROX.)	---	-5.5	VOLTS
E <sub>c</sub> FOR G <sub>m</sub> = 1500 μMHOS APPROX)	---	-2.8	VOLTS

<sup>B</sup> HEATER VOLTAGE SUPPLY VARIATIONS SHALL BE RESTRICTED TO MAINTAIN HEATER VOLTAGE WITHIN THE SPECIFIED VALUES.