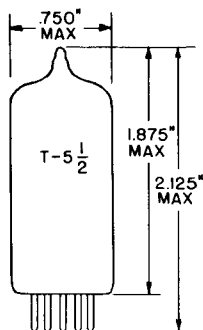


**TUNG-SOL**

## DOUBLE TRIODE

MINIATURE TYPE

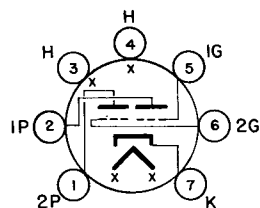


GLASS BULB  
MINIATURE BUTTON  
7 PIN BASE E7-1  
OUTLINE DRAWING  
JEDEC 5-2

FOR MILITARY AND  
INDUSTRIAL APPLICATIONS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW  
BASING DIAGRAM  
JEDEC 7BF

THE 6J6WA IS A MEDIUM-MU TWIN TRIODE WITH A COMMON CATHODE IN THE 7 PIN MINIATURE CONSTRUCTION. THE TUBE IS PARTICULARLY ADAPTABLE FOR SERVICE AS A MIXER-OSCILLATOR AT FREQUENCIES UP TO 600 MEGACYCLES PER SECOND. IT INCORPORATES DISTINCTIVE MECHANICAL DESIGN FEATURES FOR HIGHLY RELIABLE OPERATION.

**DIRECT INTERELECTRODE CAPACITANCES**

GRID TO CATHODE	1.3	pf
INPUT	2.1	pf
OUTPUT: (SECTION 1)	0.4	pf
OUTPUT: (SECTION 2)	0.45	pf
HEATER TO CATHODE	6.0	pf

**HEATER CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	450	MA.
HEATER SUPPLY LIMITS:				
VOLTAGE OPERATION			6.3 ± 0.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			+180	VOLTS

CONTINUED ON FOLLOWING PAGE

**TUNG-SOL**

CONTINUED FROM PRECEDING PAGE

**MAXIMUM RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

EACH SECTION

PLATE VOLTAGE	300	VOLTS
PLATE DISSIPATION	1.1	WATTS
PLATE CURRENT	12.5	MA.
ENVELOPE TEMPERATURE	165	°C
ALTITUDE	60,000	FT.
GRID CURRENT RESISTANCE (CATHODE BIAS)	0.25	MEGOHMS

**TYPICAL OPERATING CHARACTERISTICS**

CLASS A1 AMPLIFIER - EACH SECTION

PLATE VOLTAGE	100	VOLTS
CATHODE BIAS RESISTOR (BOTH SECTIONS) <sup>A</sup>	50	OHMS
PLATE CURRENT	9.0	MA.
TRANSCONDUCTANCE	6,000	$\mu$ MHOS
AMPLIFICATION FACTOR	38	
PLATE RESISTANCE	6,300	OHMS

**SPECIAL TESTS AND CONTROLS**

HEATER-CYCLING LIFE TEST  
 LOW PRESSURE VOLTAGE BREAKDOWN  
 SHOCK  
 FATIGUE

<sup>A</sup> OPERATION WITH FIXED BIAS IS NOT RECOMMENDED.

