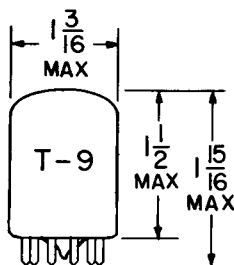


## TUNG-SOL

## TRIPLE TRIODE



## GLASS BULB

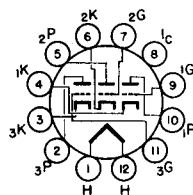
BUTTON  
12 PIN BASE E12-70  
OUTLINE DRAWING  
JEDEC 9-62

COATED UNIPOTENTIAL CATHODE

→ HEATER NOMINAL

6.3 VOLTS 0.6±0.04 AMP.  
AC OR DC

ANY MOUNTING POSITION



## BOTTOM VIEW

BASING DIAGRAM  
JEDEC 12BQ

THE 6C10 CONTAINS THREE HIGH-MU TRIODES WITH SEPARATE PIN CONNECTIONS FOR ALL THREE CATHODES, GRIDS AND PLATES IN A COMPACT T-9 GLASS ENVELOPE WITH THE NOVEL 12 PIN BASE.

## DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID TO PLATE (EACH SECTION)	1.7	pf
INPUT (EACH SECTION)	1.6	pf
OUTPUT (SECTION 1)	0.30	pf
OUTPUT (SECTION 2)	0.24	pf
OUTPUT (SECTION 3)	0.34	pf

## RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

EACH SECTION

HEATER VOLTAGE	6.3±0.6	VOLTS
HEATER CURRENT	0.6±0.04	AMP.
MAXIMUM PLATE VOLTAGE	330	VOLTS
MAXIMUM POSITIVE DC GRID VOLTAGE	0	VOLTS
MAXIMUM NEGATIVE DC GRID VOLTAGE	50	VOLTS
MAXIMUM PLATE DISSIPATION, EACH PLATE	1.0	WATTS
MAXIMUM TOTAL PLATE DISSIPATION, ALL PLATES	3.0	WATTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC COMPONENT	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
HEATER WARM-UP TIME*	11*	SECONDS

CONTINUED ON FOLLOWING PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER  
EACH SECTION

PLATE VOLTAGE	100	250	VOLTS
GRID VOLTAGE	-1.0	-2.0	VOLTS
AMPLIFICATION FACTOR	100	100	
PLATE RESISTANCE	80 000	62 500	OHMS
TRANSCONDUCTANCE	1 250	1 600	μMHOS
PLATE CURRENT	0.5	1.2	MA.

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

<sup>A</sup> HEATER VOLTAGE SUPPLY VARIATIONS TO MAINTAIN HEATER VOLTAGE OR CURRENT WITHIN THE SPECIFIED RATINGS.

\* THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VALUE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE EQUAL TO 3 TIMES THE RATED HEATER VOLTAGE DIVIDED BY THE RATED HEATER CURRENT.

\*INDICATES AN ADDITION.

→ INDICATES A CHANGE.