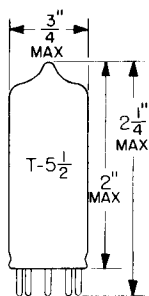


**TUNG-SOL**

PENTODE  
MINIATURE TYPE



GLASS BULB

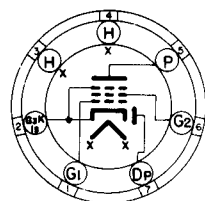
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.3 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON  
7 PIN BASE

7FW

THE 6GN6 IS A REMOTE-CUTOFF PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR USE AS A HIGH GAIN R.F. OR I.F. AMPLIFIER AND A DEMODULATOR DIODE BOTH ON A COMMON CATHODE. EXCEPT FOR HEATER CHARACTERISTICS AND HEATER WARM-UP TIME, THE 6GN6 IS IDENTICAL TO THE 12GN6.

DIRECT INTERELECTRODE CAPACITANCES

	WITH <sup>A</sup> SHIELD	WITHOUT SHIELD	
GRID #1 TO PLATE (MAX.)	.0035	.0035	μμf
INPUT	5.5	5.5	μμf
OUTPUT	5.5	5.0	μμf
COUPLING DIODE PLATE TO GRID (MAX.)	.05	.05	μμf

<sup>A</sup> WITH EXTERNAL SHIELD #316 CONNECTED TO PIN 2.

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM SCREEN-SUPPLY VOLTAGE	300	VOLTS
MAXIMUM POSITIVE GRID #1 VOLTAGE	0	VOLTS
MAXIMUM NEGATIVE GRID #1 VOLTAGE	50	VOLTS
MAXIMUM PLATE DISSIPATION	3.0	WATTS
MAXIMUM SCREEN DISSIPATION	0.6	WATTS
MAXIMUM DIODE CURRENT (CONTINUOUS OPERATION)	1.0	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC COMPONENT	100	VOLTS
TOTAL DC PLUS PEAK	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC PLUS PEAK	200	VOLTS
HEATER WARM-UP TIME* (APPROX.)	11.0	SECONDS

\* HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

CONTINUED ON FOLLOWING PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

HEATER VOLTAGE		6.3	VOLTS
HEATER CURRENT		0.3	AMP.
PLATE VOLTAGE	100	250	VOLTS
SUPPRESSOR, CONNECTED TO CATHODE AT SOCKET			
SCREEN VOLTAGE	100	100	VOLTS
CATHODE-BIAS RESISTOR	68	68	OHMS
PLATE RESISTANCE (APPROX.)	0.25	1.0	MEGOHMS
TRANSCONDUCTANCE	4300	4400	μMHOS
PLATE CURRENT	10.8	11	MA.
SCREEN CURRENT	4.4	4.2	MA.
GRID #1 VOLTAGE (APPROX.)			
$G_m = 40 \mu\text{MHOS}$	-20	-20	VOLTS
AVERAGE DIODE CURRENT AT 10V D.C.	1.5	1.5	MA.