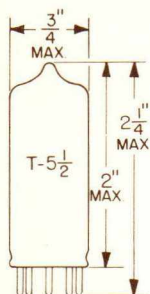


TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB

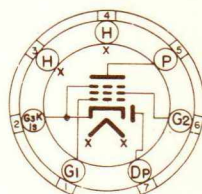
COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE

T F W

THE 12GN6 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 12GN6 IS IDENTICAL TO THE 6GN6.

DIRECT INTERELECTRODE CAPACITANCES

	WITH ^A SHIELD	WITHOUT SHIELD	
GRID #1 TO PLATE (MAX.)	.0035	.0035	$\mu\mu\text{f}$
INPUT	5.5	5.5	$\mu\mu\text{f}$
OUTPUT	5.5	5.0	$\mu\mu\text{f}$
COUPLING DIODE PLATE TO GRID (MAX.)	.05	.05	$\mu\mu\text{f}$

^A WITH EXTERNAL SHIELD #316 CONNECTED TO PIN 2.

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	12.6	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	---	VOLTS
TOTAL DC PLUS PEAK	100	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC PLUS PEAK	100	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE	12.6		VOLTS
HEATER CURRENT	0.15		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.)			
$G_m = 40 \mu MHOS$	-20	-20	VOLTS
AVERAGE DIODE CURRENT AT 10V D.C.	1.5	1.5	MA.