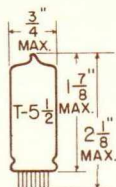


TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB

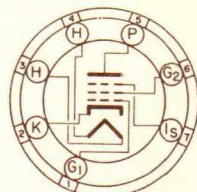
UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE

THE 12AW6 IS A MINIATURE TYPE RF PENTODE HAVING A SHARP CUT-OFF CHARACTERISTIC AND A HIGH VALUE OF TRANSCONDUCTANCE. IN COMPACT, LIGHT-WEIGHT EQUIPMENT IT IS USEFUL AS AN RF AMPLIFIER UP TO ABOUT 400 MEGACYCLES, AND AS A HIGH-FREQUENCY, INTERMEDIATE AMPLIFIER. IT HAS LOW INPUT AND OUTPUT CAPACITANCES AND A SEPARATE SUPPRESSOR CONNECTION ALL OF WHICH CONTRIBUTE TO ITS HIGH FREQUENCY PERFORMANCE. THE 12AW6 IS ELECTRICALLY EQUIVALENT TO TYPE 6AG5.

DIRECT INTERELECTRODE CAPACITANCES

WITH NO EXTERNAL SHIELD

GRID TO PLATE: (G_1 TO P) MAX.

0.025

 μmf INPUT: G TO ($H+K+G_2+G_3+IS$)

6.5

 μmf OUTPUT: P TO ($H+K+G_2+G_3+IS$)

1.5

 μmf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

	TRIODE CONNECTION ^A	PENTODE CONNECTION	
HEATER VOLTAGE	12.6	12.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	—	150	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	—	300	VOLTS
MAXIMUM NEGATIVE DC GRID #1 VOLTAGE	50	50	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	0	VOLTS
MAXIMUM PLATE DISSIPATION	2.5	2	WATTS
MAXIMUM GRID #2 DISSIPATION	—	0.5	WATT

^A GRID #2 TIED TO PLATE AND GRID #3 TIED TO CATHODE.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER - PENTODE CONNECTION

HEATER VOLTAGE	12.6	12.6	12.6	VOLTS
HEATER CURRENT	150	150	150	MA.
PLATE VOLTAGE	100	125	250	VOLTS
GRID #3 VOLTAGE	CONNECTED TO CATHODE AT SOCKET			
GRID #2 VOLTAGE	100	125	150	VOLTS
CATHODE BIAS RESISTOR	100	100	200	OHMS
PLATE RESISTANCE (APPROX.)	0.3	0.5	0.8	MEGOHM
TRANSCONDUCTANCE	4 750	5 100	5 000	μMHOS
PLATE CURRENT	5.5	7.2	7	MA.
GRID #2 CURRENT	1.6	2.1	2	MA.
GRID #1 VOLTAGE (APPROX.) FOR $I_b = 10 \mu A$.	-5	-6	-8	VOLTS

CLASS A₁ AMPLIFIER - TRIODE CONNECTION

HEATER VOLTAGE	12.6	12.6	VOLTS
HEATER CURRENT	150	150	MA.
PLATE VOLTAGE	180	250	VOLTS
CATHODE BIAS RESISTOR	350	825	OHMS
PLATE RESISTANCE	7 900	11 000	OHMS
TRANSCONDUCTANCE	5 700	3 800	μMHOS
AMPLIFICATION FACTOR	45	42	
PLATE CURRENT	7.0	5.5	MA.

SIMILAR TYPE REFERENCE: Ratings and characteristics identical to 6AG5.

