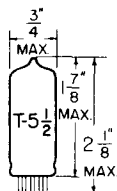


TUNG-SOL

DIODE PENTODE

MINIATURE TYPE



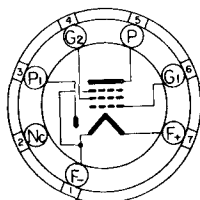
GLASS BULB

COATED FILAMENT

1.4 VOLTS 25 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE

6AU

THE 1AF5 IS A FILAMENTARY TYPE DIODE PENTODE VOLTAGE AMPLIFIER USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED SPECIFICALLY FOR USE IN PORTABLE RECEIVERS AS A DETECTOR AND AF AMPLIFIER. THE FILAMENT POWER CONSUMPTION HAS BEEN CUT IN HALF WITH RESPECT TO TUBES PREVIOUSLY USED IN THIS SERVICE.

DIRECT INTERELECTRODE CAPACITANCES

	WITHOUT SHIELD	WITH SHIELD ^A	
GRID TO PLATE: (G_1 TO P)	0.2	0.2	μmf
INPUT: G_1 TO ($F_2 + G_3 + G_2$)	2.3	2.5	μmf
OUTPUT: P TO ($F_2 + G_3 + G_2$)	2.4	4.3	μmf
DIODE TO GRID #1: (P_1 TO G_1) MAX.	0.03	0.03	μmf

^A SHIELD #316 CONNECTED TO PIN #1.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

FILAMENT VOLTAGE	1.4	VOLTS
MAXIMUM PLATE VOLTAGE	110	VOLTS
MAXIMUM GRID #2 VOLTAGE	110	VOLTS
MAXIMUM POSITIVE GRID #1 VOLTAGE	0	VOLTS
MAXIMUM CATHODE CURRENT	2.5	MA.
MAXIMUM DIODE CURRENT FOR CONTINUOUS OPERATION	0.25	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

FILAMENT VOLTAGE	1.4	1.4	VOLTS
FILAMENT CURRENT	25	25	MA.
PLATE VOLTAGE	67.5	90	VOLTS
GRID #2 VOLTAGE	67.5	90	VOLTS
GRID #1 VOLTAGE	0	0	VOLTS
PLATE RESISTANCE	2.3	2	MEGOHMS
TRANSCONDUCTANCE	500	600	μMHOS
PLATE CURRENT	0.7	1.1	MA.
GRID #2 CURRENT	0.25	0.4	MA.
GRID #1 VOLTAGE FOR $G_m = 10 \mu\text{MHOS}$	-2.5	-3.5	VOLTS
AVERAGE DIODE CURRENT WITH 10 VOLTS DC APPLIED	0.7	0.7	MA.