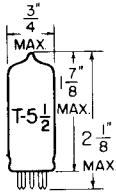


TUNG-SOL

HEPTODE
MINIATURE TYPE



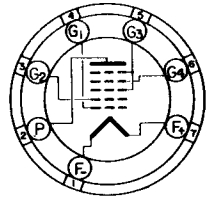
GLASS BULB

COATED FILAMENT

1.4 VOLTS 25 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

7CD

THE 1U6 IS A FILAMENTARY TYPE PENTAGRID CONVERTER USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED SPECIFICALLY FOR USE IN PORTABLE RECEIVERS. 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 #4 TO PLATE: (G ₄ TO P)	0.4	0.4	μuf
GRID #4 TO GRID #2: (G ₄ TO G ₂)	0.2	0.2	μuf
GRID #4 TO GRID #1: (G ₄ TO G ₁)	0.2	0.2	μuf
GRID #1 TO GRID #2: (G ₁ TO G ₂)	0.8	0.8	μuf
GRID #4 TO ALL: G ₄ TO (F+G ₁ +G ₂ +G ₃ +G ₅ +P)	8	8	μuf
GRID #2 TO ALL EXCEPT GRID #1: G ₂ TO (F+G ₃ +G ₅ +G ₄ +P)	2.2	2.4	μuf
GRID #1 TO ALL EXCEPT GRID #2: G ₁ TO (F+G ₃ +G ₅ +G ₄ +P)	2	2.2	μuf
PLATE TO ALL: P TO (F+G ₁ +G ₂ +G ₃ +G ₅ +G ₄)	7	12	μuf

^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 GRIDS #3 & #5 VOLTAGE ^B	65	VOLTS
MAXIMUM GRIDS #3 & #5 SUPPLY VOLTAGE	110	VOLTS
MAXIMUM GRID #2 VOLTAGE	110	VOLTS
MAXIMUM CATHODE CURRENT	4	MA.
MINIMUM GRID #4 CIRCUIT RESISTANCE	1	MEGOHM

^B OBTAINED BY USING A BY-PASSED VOLTAGE DROPPING RESISTOR IN SERIES WITH THE PLATE SUPPLY VOLTAGE, OR BY EQUIVALENT MEANS.

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PLATE
2431
JULY 1
1950

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CONVERTER

FILAMENT VOLTAGE	1.4	1.4	VOLTS
FILAMENT CURRENT	25	25	MA.
PLATE VOLTAGE	67.5	90	VOLTS
GRIDS #3 & #5 VOLTAGE	45	45	VOLTS
GRID #2 VOLTAGE	67.5	90	VOLTS
GRID #4 VOLTAGE	0	0	VOLTS
GRID #1 RESISTOR	0.2	0.2	MEGOHM
PLATE RESISTANCE	0.55	0.60	MEGOHM
PLATE CURRENT	0.5	0.55	MA.
GRIDS #3 & #5 CURRENT	0.6	0.55	MA.
GRID #2 CURRENT	0.95	1.1	MA.
GRID #1 CURRENT	0.028	0.035	MA.
TOTAL CATHODE CURRENT	2.1	2.2	MA.
CONVERSION TRANSCONDUCTANCE	260	275	μ MHOS
GRID #4 VOLTAGE FOR $G_C = 10 \mu$ MHOS APPROX.	-3	-3	VOLTS
OSCILLATOR TRANSCONDUCTANCE WITH 0 VOLTS ON GRIDS #1 & #4		475	μ MHOS