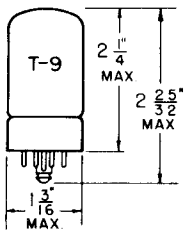
TUNG-SOL



PENTAGRID CONVERTER

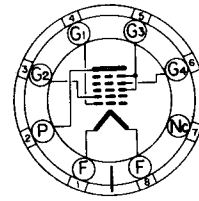
COATED FILAMENT

1.4 VOLTS 0.050 AMPERE

DC

GLASS BULB

ANY MOUNTING POSITION



BOTTOM VIEW

LOCKING-IN
8-PIN BASE

THE 1LC6 IS A PENTAGRID CONVERTER, DESIGNED FOR SERVICE AS AN OSCILLATOR AND MIXER IN SUPERHETERODYNE RECEIVERS.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

MAXIMUM PLATE VOLTAGE	90	VOLTS
MAXIMUM SCREEN (G3 AND G5) VOLTAGE	35	VOLTS
MAXIMUM SCREEN SUPPLY VOLTAGE	90	VOLTS
MAXIMUM TOTAL CATHODE CURRENT	3.0	MA.
MAXIMUM ANODE GRID (G2) VOLTAGE	45	VOLTS

DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD CONNECTED TO NEGATIVE FILAMENT (PIN 8)

SIGNAL GRID (G4) TO MIXER PLATE (P)	0.28	μμf
SIGNAL GRID (G4) TO OSC. PLATE (G2)	0.38	μμf
SIGNAL GRID (G4) TO OSC. GRID (G1)	0.11	μμf
OSC. GRID (G1) TO OSC. PLATE (G2)	0.6	μμf
SIGNAL INPUT: G4 TO ALL OTHER ELECTRODES	9.0	μμf
OSC. INPUT: G1 TO ALL OTHER ELECTRODES EXCEPT G2	2.4	μμf
OSC. OUTPUT: G2 TO ALL OTHER ELECTRODES EXCEPT G1	4.8	μμf
MIXER OUTPUT: P TO ALL OTHER ELECTRODES	5.5	μμf

CONTINUED ON NEXT PAGE

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PLATE 1533

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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CONVERTER SERVICE

PLATE VOLTAGE	45	90	VOLTS
SCREEN (G3 AND G5) VOLTAGE	35	35	VOLTS
CONTROL GRID (G4) VOLTAGE [A]	0	0	VOLTS
ANODE GRID (G2) VOLTAGE	45	45	VOLTS
PLATE CURRENT	0.7	0.75	MA.
SCREEN CURRENT	0.75	0.7	MA.
ANODE GRID CURRENT	1.4	1.4	MA.
OSC. GRID CURRENT	0.035	0.035	MA.
TOTAL CATHODE CURRENT	2.9	2.9	MA.
OSC. GRID (G1) RESISTOR	0.2	0.2	MEGOHM
CONVERSION TRANSCONDUCTANCE AT EC4 = 0	250	275	µMHOS
CONVERSION TRANSCONDUCTANCE AT EC4 = -2	50	50	µMHOS
CONVERSION TRANSCONDUCTANCE AT EC4 = -3	5.0	5.0	µMHOS
PLATE RESISTANCE	0.3	0.65	MEGOHM

[A] UNDER MAXIMUM RATED CONDITIONS THERE SHOULD BE A RESISTANCE OF AT LEAST 1.0 MEGOHM IN THE RETURN TO THE NEGATIVE FILAMENT PIN.

PLATE 1534
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