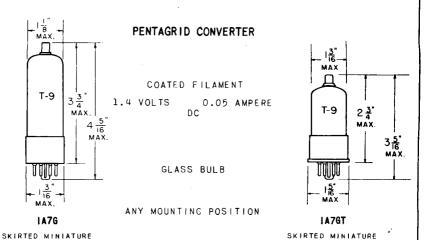
TUNG-SOL



CAP

BOTTOM VIEW
SMALL 8 PIN OCTAL
BASE



CAP

BOTTON VIEW

SMALL WAFER 8 PIN OCTAL

BASE WITH METAL SHELL

THE 1A7G AND 1A7GT ARE FILAMENT TYPE PENTAGRID CONVERTERS DESIGNED FOR SERVICE AS COMBINED OSCILLATORS AND MIXERS IN PORTABLE BATTERY OPERATED EQUIPMENT. THEY FEATURE HIGH EFFICIENCY FILAMENTS AND PROVIDE REASONABLE CONVERSION GAINS WITH LOW BATTERY VOLTAGES AND LOW ELECTRON CURRENTS.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

MAXIMUM PLATE VOLTAGE	110	VOLTS
MAXIMUM SCREEN (G3 AND G5) VOLTAGE	60	VOLTS
MAXIMUM SCREEN SUPPLY VOLTAGE	110	VOLTS
MAXIMUM ANODE-GRID (G2) VOLTAGE	110	VOLTS
MAXIMUM TOTAL ZERO-SIGNAL CATHODE CURRENT	4.0	MA.

CONTINUÉD ON NEXT PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD CORNECTED TO REGATIVE FILAMENT TERMINAL

GRID #4 TO PLATE	0.5 MAX. 0.4 MAX.	µµf µµf
GRID #4 TO GRID #2 GRID #4 TO GRID #1	0.2 MAX.	μμf
GRID #4 TO GRID #2 GRID #4 TO ALL OTHER ELECTRODES (R-F INPUT)	0.9 7.0	րարք բարք
GRID #2 TO ALL OTHER ELECTRODES EXCEPT GRID #1 (OSCILLATOR OUTPUT)	4.4	μμf
GRID #4 TO ALL OTHER ELECTRODES EXCEPT GRID #2 (OSCILLATOR INPUT) PLATE TO ALL OTHER ELECTRODES (MIXER OUTPUT).	3.4 10	μμ.f μμ.f

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CONVERTER SERVICE

90	VOLTS
45	VOLTS
90	VOLTS
0	VOLTS
200 000	OHMS
0.6	ME GOHM
250	µмноs
5.0 APPROX.	µмноs
0.6	MA.
0.7	MA.
1.2	MA .
0.035	MA.
2.5	MA.
	45 90 0 200 000 0.6 250 5.0 APPROX. 0.6 0.7 1.2 0.035

THE TRANSCONDUCTANCE OF THE OSCILLATOR PORTION (NOT OSCILLATING) IS 550 MICROMHOS UNDER THE FOLLOWING COMDITIONS: PLATE VOLTS, 90; SCREEN VOLTS, 45; CONTROL-GRID VOLTS, 0; ANDDE-GRID VOLTS, 90; AND OSCILLATOR-GRID VOLTS, 0.

PLATE 1492 OCT. 31 1944

A OBTAINED PREFERABLY BY USING A PROPERLY BY-PASSED 45 000 TO 75 000 OHM VOLTAGE-DROPPING RESISTOR IN SERIES WITH THE 90 VOLT SUPPLY.

B A RESISTANCE OF AT LEAST 1.0 MEGOHM SHOULD BE USED IN THE GRIO RETURN TO NEGATIVE FILAMENT PIN.