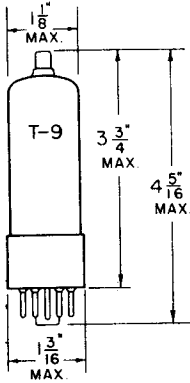


**TUNG-SOL**

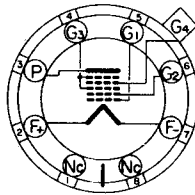
**PENTAGRID CONVERTER**



**IB7G**

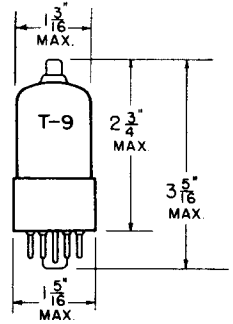
SKIRTED MINIATURE  
STYLE C CAP

COATED FILAMENT  
1.4 VOLTS 0.10 AMPERE  
DC  
GLASS BULB



**BOTTOM VIEW**

SMALL 8-PIN OCTAL



**IB7GT**

SKIRTED MINIATURE  
STYLE C CAP

ANY MOUNTING POSITION

**RATINGS**

INTERPRETED ACCORDING TO RMA STANDARD MB-210

MAXIMUM PLATE VOLTAGE	100	VOLTS
MAXIMUM SCREEN (G3 AND G5) VOLTAGE	55	VOLTS
MAXIMUM SCREEN SUPPLY VOLTAGE	90	VOLTS
MAXIMUM ANODE GRID (G2) VOLTAGE	90	VOLTS
MAXIMUM TOTAL CATHODE CURRENT	6.0	MA.

**DIRECT INTERELECTRODE CAPACITANCES**

TUBE SHIELD CONNECTED TO NEGATIVE FILAMENT

SIGNAL GRID (G4) TO MIXER PLATE (P)	0.34	$\mu\mu\text{f}$
SIGNAL GRID (G4) TO OSC. PLATE (G2)	0.26	$\mu\mu\text{f}$
SIGNAL GRID (G4) TO OSC. GRID (G1)	0.12	$\mu\mu\text{f}$
OSC. GRID (G1) TO OSC. PLATE (G2)	0.90	$\mu\mu\text{f}$
SIGNAL INPUT: G4 TO (F+G1+G2+G3+G5+P+SHIELD)	7.00	$\mu\mu\text{f}$
OSC. OUTPUT: G2 TO (F+G3+G4+G5+P+SHIELD)	4.20	$\mu\mu\text{f}$
OSC. INPUT: G1 TO (F+G3+G4+G5+P+SHIELD)	4.00	$\mu\mu\text{f}$
MIXER OUTPUT: P TO (F+G1+G2+G3+G4+G5+SHIELD)	7.50	$\mu\mu\text{f}$

CONTINUED ON NEXT PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE.

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## CONVERTER SERVICE

PLATE VOLTAGE	90	VOLTS
SCREEN (G3 AND G5) VOLTAGE	45	VOLTS
ANODE GRID (G2) VOLTAGE	90	VOLTS
CONTROL GRID (G4) VOLTAGE <sup>A</sup>	0	VOLTS
OSC. GRID (G1) RESISTOR	200 000	OHMS
PLATE RESISTANCE	0.35	MEGOHM
CONVERSION TRANSCONDUCTANCE	350	μMHOS
CONTROL GRID VOLTAGE		
FOR TRANSCONDUCTANCE=2 μMHOS (APPROX.)	-14.5	VOLTS
PLATE CURRENT	1.5	MA.
SCREEN CURRENT	1.3	MA.
ANODE GRID CURRENT	1.6	MA.
OSC. GRID (G1) CURRENT	0.035	MA.
TOTAL CATHODE CURRENT	4.4	MA.

<sup>A</sup> RETURN TO NEGATIVE FILAMENT PIN #7