


RADIOTRON

1A7-GT

PENTAGRID CONVERTER1A7-GT
★

Filament	Coated	
Voltage	1.4	d-c volts
Current	0.05	amp.
Direct Interelectrode Cap. ⁰		
Grid #4 to Plate		0.30 μpf.
Grid #4 to Grid #2		0.28 μpf.
Grid #4 to Grid #1		0.12 μpf.
Grid #1 to Grid #2		0.90 μpf.
Grid #4 to All Other Electrodes (R-F Input)		6.5 μpf.
Grid #2 to All Other Electrodes Except Grid #1 (Osc. Output)		4.6 μpf.
Grid #1 to All Other Electrodes Except Grid #2 (Osc. Input)		4.0 μpf.
Plate to All Other Electrodes (Mixer Output)		11 μpf.
Overall Length		3-15/32" max.
Seated Height		2-29/32" max.
Maximum Diameter		1- 5/16"
Bulb		T-9
Cap		Skirted Min.
Base	Intermediate Shell	Octal 8-Pin.
Basing Designation		GT-72
Pin 1 - No Connection		Pin 5-Grid #1
Pin 2-Filament +		Pin 6-Grid #2
Pin 3-Plate		Pin 7-Fil. -
Pin 4-Grids #3 & #5		Pin 8-No Con.
		Cap - Grid #4
Mounting Position		Any



BOTTOM VIEW

<u>CONVERTER SERVICE</u>		
Plate Voltage		110 max. Volts
Screen (Grids #3 & #5) Voltage **		65 max. volts
Screen Supply Voltage		110 max. volts
Anode-Grid (Grid #2) Voltage		110 max. volts
Total Cathode Current		4 max. ma.
Typical Operation:		
Plate	90	volts
Screen **	45	volts
Anode-Grid	90	volts
Control-Grid (Grid #4)▲	0	volts
Oscillator-Grid (Grid #1) Resistor	200000	ohms.
Plate Res.	0.6	megohm
Conversion Transcond.	250	μmhos
Convers. Transcond. grid #4 bias of -3v.	5 approx.	μmhos
Plate Cur.	0.55	ma.
Screen Cur.	0.6	ma.
Anode-Grid Cur.	1.2	ma.
Oscillator-Grid Cur	0.035	ma.
Total Cathode Cur.	2.4	ma.

NOTE: The transconductance of the oscillator portion (not oscillating) is 550 micromhos under the following conditions: plate volts, 90; screen volts, 45; cont.-grid volts, 0; anode-grid volts, 90; and oscillator-grid volts, 0.

⁰ With close-fitting shield conn. to negative fil. terminal.

** Obtained preferably by using a properly by-passed 45000- to 75000-ohm voltage dropping resistor in series with the supply voltage.

▲ A resistance of at least 1.0 megohm should be in the grid return to negative filament pin.

← Indicates a Change.