



PENTAGRID CONVERTER

Canada Harisana Arabada		
Heater Coated Unipotential Car	a-c or d-c	val+c
1 - 0	a-c or u-c	
Current 0.3 uu		amp.
Direct Interelectrode Capacitances:		
Grid #3 to All Other Electrodes & Bas		
Shell (R-F Input)	9.0	μμf
Plate to All Other Electrodes & Base		_
Shell (Mixer Output)	9.0	μμf
Grid #1 to All Other Electrodes & Bas	se .	
Shell	7.0	μμf
Grid #3 to Plate	0.20 max.	μμf
Grid #1 to Grid #3	0.20 max.	μμf
Grid #1 to Plate	0.15 max.	μμf
		μμι
Grid #1 to All Other Electrodes & Bas		
Shell Except Cathode	5.0	μμf
Grid #1 to Cathode	2.2	μμf
Cathode to All Other Electrodes & Bas	se	
Shell Except Grid #1	6.0	μμf
Maximum Overall Length	2-25/32	n
Maximum Seated Height	2-1/4"	
Maximum Diameter	1-3/16'	1
Bulb	T_9	
1	Lock-in 8-	D:a
Base (4)		
Pin 1-Heater	Pin 6 - Grid #	
Pin 2-Plate	Pin 7 - Cathod	е
Pin 3-Grids #2 & #4 ② 六つ	Pin 8 - Heater	
Pin 4 – Grid #1 (1)宣(8)	Plug -Base S	hell
Pin 5-Grid #5		
Mounting Position BOTTOM VIEW (8AL)		Any
CONVERTER SERVICE		
Plate Voltage	300 max.	volts
Grids #2 & #4 Voltage	100 max.	volts
	300 max.	volts
Grids #2 & #4 Supply Voltage		
Grid #3 Voltage	0 min.	volts
Plate & Grids #2 & #4 Dissipation (total		watts
Grids #2 & #4 Dissipation	1.0 max.	watt
Total Cathode Current	14 max.	ma.
Characteristics with Separate Excitation	on:*	
Plate Voltage 100		volts
Grids #2 & #4 Voltage 100		volts
Grid #3 (Control) Voltage -2		volts
Grid #5 Voltage 0	_	-
	•	volts
Grid #1 Resistor 20000		ohms
Plate Resistance 0.5		
Conversion Transcond. 525	550	µmhos
Conversion Transcond. with	•	
Grid #3 Bias of -35 volts 2	2 approx.	µmhos
Plate Current 3.3		ma.
Grids #2 & #4 Current 8.5		ma.
Grid #1 Current 0.5		ma.
Total Cathode Current 12.3		
D D • 0 *: See next page.	, 12.0	ma.
, , , see next page.		





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(continued from preceding page) NOTE: The transconductance between Grid #1 and Grids #2 # #4 connected to plate (not oscillating) is approximately #5000 µmhos under the following conditions: Grids #1. #3, and #5 at 0 volts; Grids #2 # #4 and plate at 100 volts. In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible. Nominal voltage = 7.0 volts. Nominal current = 0.32 ampere. With shield-can connected to cathode. With self-excited ościllator. These characteristics correspond very closely to those obtained with zero bias in a self-excited oscillator circuit. A typical self-excited converter circuit is shown under Type 6SA7.