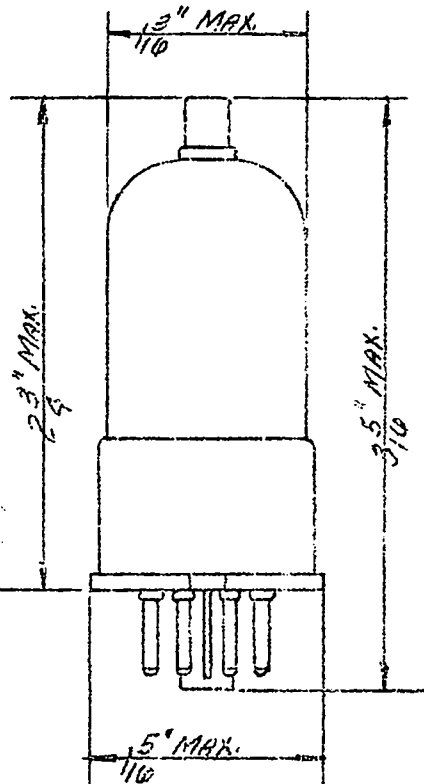


# TECHNICAL DATA

## ARCTURUS



### TYPE 12A8GT MIDGET

### PENTAGRID CONVERTER

Heater Voltage	12.5	Volts
Heater Current	.150	Ampere

### OPERATING CHARACTERISTICS

Plate Voltage	100	250	Volts
Screen Grid Voltage	50	100	Volts
Anode Grid Voltage	100	250*	Volts
Control Grid Voltage	-1.5	-3	Volts
Plate Current	1.2	3.3	ma.
Screen Current (Grid #3 & #5)	1.5	3.2	ma.
Anode Grid Current (Grid #2)	1.6	4.0	ma.
Oscillator Grid Current (Grid #1)	0.25	0.50	ma.
Plate Resistance	0.30	0.56	megohm
Oscillator Grid Resistor	50,000	50,000	ohms
Conversion Conductance (Sc)	350	500	micromhos
Control Grid Voltage for Sc = 2 umhos	-30	-45	Volts

\*Through 20,000 ohm dropping resistor

### DIRECT INTERELECTRODE CAPACITANCES

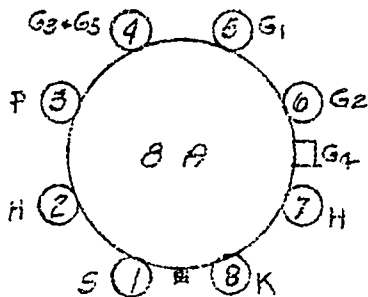
o Grid #4 to plate	.20	uuf
o Grid #4 to Grid #2	.19	uuf
o Grid #4 to Grid #1	.15	uuf
Grid #1 to Grid #2	1.0	uuf
Grid #4 to all other electrodes	7.5	uuf
Grid #2 to all other electrodes	3.0	uuf
Plate to all other electrodes	7.5	uuf
Grid #1 to all other electrodes	6.2	uuf

o With Shield Can

### APPLICATION

Type 12A8GT is one of a new line of tubes designed primarily for series heater operation in AC-DC receivers. Through the use of a small resistance connected in series with the heaters the need for plug-in resistors or line cords is eliminated. Only half the heater power for the entire receiver is required compared to designs using .3 ampere types.

### PIN ARRANGEMENT



### BOTTOM VIEW

1-5-39