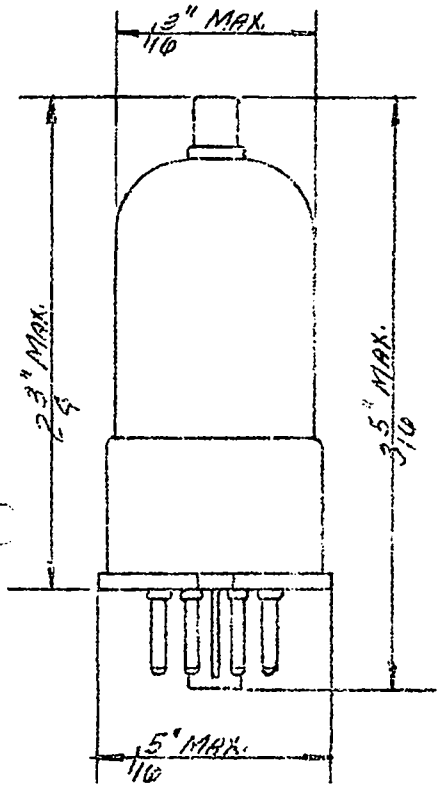
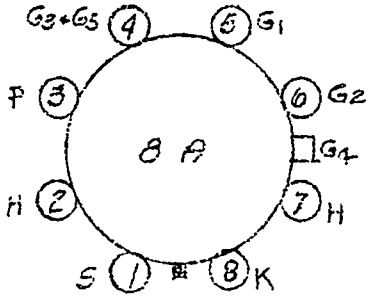
TECHNICAL DATA

ARCTURUS



PIN ARRANGEMENT



BOTTOM VIEW

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	0.36	megohm
Oscillator Grid Resistor	50,000	50,000	ohms
Conversion Conductance (Sc)	350	500	micromhos
Control Grid Voltage for Sc = 2 umhos	-30	-43	Volts

*Through 20,000 ohm dropping resistor

DIRECT INTERELECTRODE CAPACITANCES

°Grid #4 to plate	.20 uuf
°Grid #4 to Grid #2	.19 uuf
°Grid #4 to Grid #1	.13 uuf
Grid #1 to Grid #2	1.0 uuf
Grid #4 to all other electrodes	7.5 uuf
Grid #2 to all other electrodes	8.0 uuf
Plate to all other electrodes	7.5 uuf
Grid #1 to all other electrodes	6.2 uuf

° 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.

1-5-39

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