

# TECHNICAL DATA

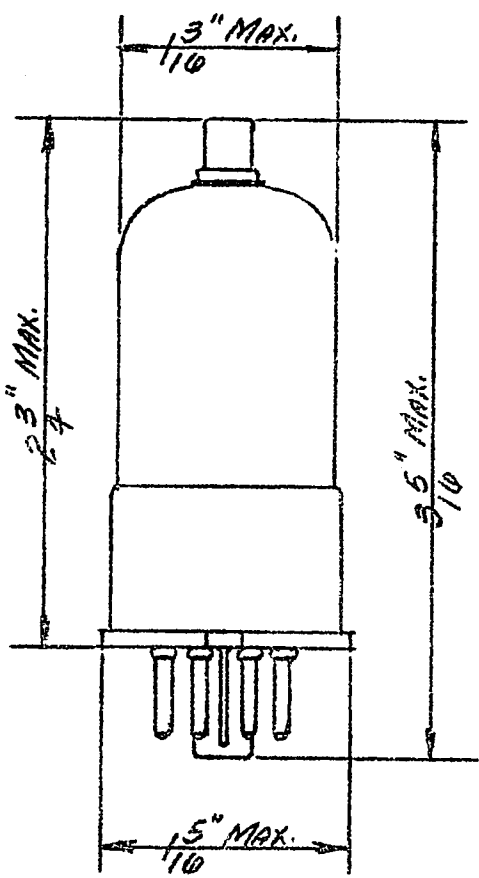
# 170

from RMA release #170, March 31, 1939

## ARCTURUS

TYPE 6K8GT MIDGET

### TRIODE-HEXODE CONVERTER



Heater Voltage	6.3 Volts
Heater Current	0.3 Ampere

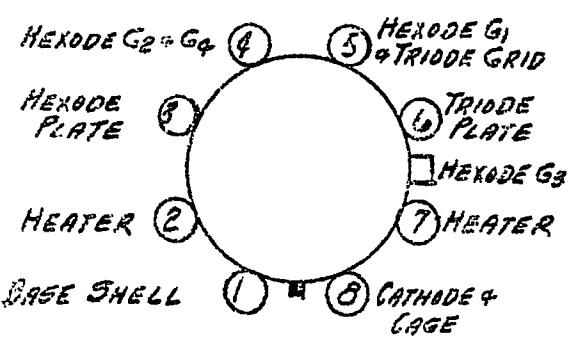
### OPERATING CHARACTERISTICS

Hexode Plate Voltage	250 Volts (Max)
Hexode Screen (Grids #2 & #4) Voltage	100 Volts (Max)
Hexode Control-Grid (Grid #3) "	-3 Volts (Min)
Triode Plate Voltage	125 Volts (Max)
Triode Plate Dissipation	0.75 Watt (Max)
Total Cathode Current	16 Ma. (Max)

#### Typical Operation:

Heater Voltage	6.3	6.3 Volts
Hexode Plate Voltage	100	250 Volts
Hexode Screen Voltage	100	100 Volts
Hexode Control-Grid Voltage	-3	-3 Volts
Triode Plate Voltage	100	100 Volts
Triode Grid Resistor	50,000	50,000 Ohms
Hexode Plate Resistance	0.4	0.6 Megohm
Conversion Transconductance	325	350 umhos
Hexode Control-Grid Bias for Conver. Transcond. = 2 umhos	-30	-30 Volts
Hexode Plate Current	2.3	2.5 Ma.
Hexode Screen Current	6.2	6.0 Ma.
Triode Plate Current	3.8	3.8 Ma.
Triode Grid & Hexode Grid #1 Current	0.15	0.15 Ma.

### PIN ARRANGEMENT



### BOTTOM VIEW

### DIRECT INTERELECTRODE CAPACITANCES

Hexode Grid #3 to Hexode Plate	0.03 uuf
Hexode Grid #3 to Triode Plate	0.02 uuf
Hexode Grid #3 to Triode Grid & Hexode Grid #1	0.02 uuf
Triode Grid & Hexode Grid #1 to Triode Plate	1.7 uuf
Triode Grid & Hexode Grid #1 to Hexode Plate	0.06 uuf
Hexode Grid #3 to all other Electrodes = R-F Input	4.0 uuf
Triode Plate to all other electrodes (except Triode Grid & Hexode Grid #1) = Osc. Output	3.6 uuf
Triode Grid & Hexode Grid #1 to all other electrodes (except Triode Plate) = Osc. Input	6.7 uuf
Hexode Plate to all other electrodes = Mixer Output	4.5 uuf