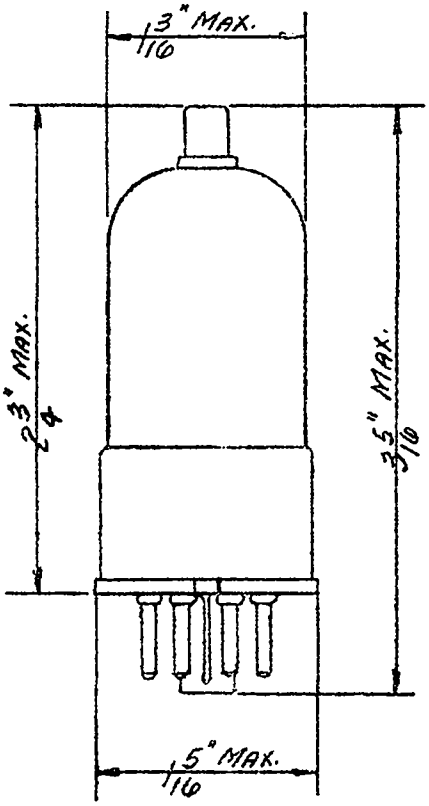
# TECHNICAL DATA

# ARCTURUS




## TYPE 12J7GT MIDGET

## PENTODE DETECTOR AMPLIFIER

| | |
|---|---|
| Heater Voltage | 12.5 Volts |
| Heater Current | .150 Ampere |

## OPERATING CHARACTERISTICS

| | | | |
|---|---|---|---|
| Plate Voltage | 100 | 250 | Volts |
| Screen Grid Voltage | 100 | 100 | Volts |
| Control Grid Voltage | -3 | -3 | Volts |
| Plate Current | 2.0 | 2.0 | ma. |
| Screen Grid Current | 0.5 | 0.5 | ma. |
| Plate Resistance | 1.0 | 1.5 | megohm |
| Transconductance | 1185 | 1225 | micromhos |
| Amplification Factor | 1185 | 1500 | |

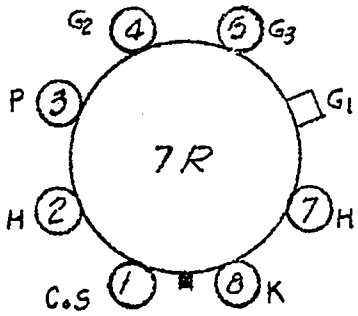
## DIRECT INTERELECTRODE CAPACITANCES

| | | |
|---|---|---|
| Grid to plate | .005 | μμf (max.) |
| Input | 4.3 | μμf |
| Output | 9.0 | μμf |

## APPLICATION

Type 12J7GT 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

1-4-39

from RMA release #156, Jan. 7, 1939

A60B137BF1

# JOINT ELECTRON DEVICE ENGINEERING COUNCIL

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Telephone: LOngacre 5-0717

Announcement
of
Electron Device Type Reregistration

Release No. 156C (Tentative)*

April 25, 1960

The Joint Electron Device Engineering Council announced the registration of the following electron device designation

12J7GT

on January 7, 1939, Release No. 156, under the sponsorship of Arcturus Radio Company, Newark, New Jersey.

The Radio Corporation of America, Harrison, New Jersey, now proposes reregistration based on the following data:

| ITEM | AS REGISTERED | AS PROPOSED | |
|---|---|---|---|
| Under Ratings: | | | |
| Suppressor | none | Connect to cathode at socket | |
| Maximum Screen Voltage | 125 max | See J5-C4-2 | volts |
| Maximum Screen Dissipation | 0.1 max | delete | watt |
| Maximum Screen Input: | | | |
| For Screen Voltages up to 150 V | none | 0.1 | watt |
| For Screen Voltages between 150 & 300 V | none | See J5-C4-2 | |
| Peak Heater-Cathode Voltage | | | |
| Heater Negative with respect to Cathode | none | 90 max | volts |
| Heater Positive with respect to Cathode | none | 90 max | volts |

*Unless valid objection to this reregistration is lodged with the EIA Standards Laboratory prior to May 25, 1960, this reregistration will be made and this information will be considered "FINAL" WITHOUT FURTHER NOTICE!