

2034

Release 373
7/1/43GENERAL ELECTRIC
RMA TYPE 2034

2034

TWIN TRIODE
POWER AMPLIFIER
OSCILLATOR

The 2034 (RK-34) is a heater type twin triode power amplifier tube having a phenolic base. It is designed for use as a power amplifier oscillator or frequency multiplier.

BULB: ST-14 Glass

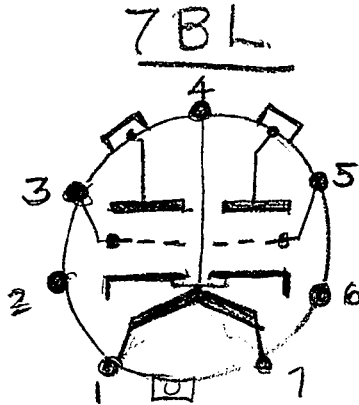
MOUNTING POSITION: Any

CAPS: Small Metal

BASE: Medium Shell 7-Pin

DIMENSIONS

Maximum Overall Length
Maximum Seated Height
Maximum Diameter



5 3/16 inches
4 9/16 inches
1 15/16 inches

BASING (RMA Designation)

Pin 1 - Heater
Pin 2 - No Connection
Pin 3 - Grid-Right
Pin 4 - Cathode
Top Cap (adjacent to pin 3) - Plate-Right
Top Cap (adjacent to pin 5) - Plate-Left

Pin 5 - Grid-Left
Pin 6 - No Connection
Pin 7 - Heater

DIRECT INTERELECTRODE CAPACITANCES - Each Triode*

G to P (Grid to Plate) 2.4 μ f
G to K (Input) 3.4 μ f
P to K (Output) 0.5 μ f

RATINGS

Heater Voltage (a-c or d-c) 6.3 volts
Heater Current 0.8 amp
Maximum Plate Voltage 300 volts
Maximum Plate Dissipation (each triode) 5 watts
Maximum Peak Plate Current (each triode) 125 ma
Maximum D-C Plate Current (each triode) 40 ma

R-F POWER AMPLIFIER OR OSCILLATOR - PUSH-PULL - CLASS C

D-C Plate Voltage 300 volts
D-C Grid Voltage -36 volts
D-C Plate Current 80 ma
D-C Grid Current 20 ma
Peak R-F Input Voltage (grid to grid) 196 volts
R-F Driving Power 1.8 watts
Power Output 16 watts

*Triode not under test connected to ground. Tube tested without shield.

A-F POWER AMPLIFIER - CLASS B

TYPICAL OPERATION

| | | | |
|---------------------------------------|------|-------|-------|
| D-C Plate Voltage | 180 | 300 | volts |
| D-C Grid Voltage | -6 | -15 | volts |
| D-C Plate Current (no signal) | 30 | 30 | ma |
| D-C Plate Current (max. signal) | 70 | 70 | ma |
| D-C Grid Current (max. signal) | 16 | 12 | ma |
| Peak A-F Input Voltage (grid to grid) | 100 | 100 | volts |
| A-F Driving Power | 0.7 | 0.5 | watts |
| Load Resistance (plate to plate) | 6000 | 10000 | ohms |
| Power Output | 7.8 | 15 | watts |

A-F POWER AMPLIFIER - CLASS A (Triodes in parallel)

TYPICAL OPERATION

| | | | |
|----------------------|--|------|--------|
| D-C Plate Voltage | | 300 | volts |
| D-C Grid Voltage | | 16 | volts |
| D-C Plate Current | | 25 | ma |
| Amplification Factor | | 15 | |
| Plate Resistance | | 3100 | ohms |
| Transconductance | | 4200 | micras |
| Load Resistance | | 5000 | ohms |
| Power Output | | 0.8 | watts |

FREQUENCY RANGE

The 2C34 may be operated at maximum ratings up to 80 megacycles, 75% of rated input may be used at 120 megacycles and 50% of rated input at 160 megacycles.

BIAS

At least 15 volts of fixed bias should be used with 300 volts on the plate to protect the tube in case of failure of the bias or excitation.

PLATE TEMPERATURE

The plates of the 2C34 will not show color when operated at the maximum rated plate dissipation. Dissipations above the rated value should be avoided.