Release 3 & 3
1/1/43

TENTATIVE RMA
RMA TYPE 2C34

TWIN TRIODE
POWER AMPLIFIER
OSCILLATOR

The 2C34 (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.

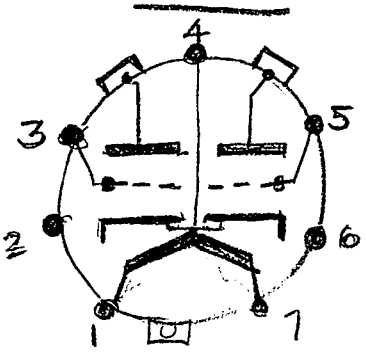
BULB: ST-14 Glass

MOUNTING POSITION: Any

CAPS: Small Metal

BASE: Medium Shell 7-Pin

7BL



DIMENSIONS

Maximum Overall Length	5 3/16	inches
Maximum Seated Height	4 9/16	inches
Maximum Diameter	1 13/16	inches

BASING (RMA Designation)

Pin 1 - Heater
Pin 2 - No Connection
Pin 3 - Grid-Right
Pin 4 - Cathode
Pin 5 - Grid-Left
Pin 6 - No Connection
Pin 7 - Heater
Top Cap (adjacent to pin 3) - Plate-Right
Top Cap (adjacent to pin 5) - Plate-Left

DIRECT INTERELECTRODE CAPACITANCES - Each Triode*

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

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	13	
Plate Resistance	3100	ohms
Transconductance	4200	µmhos
Load Resistance	5000	ohms
Power Output	0.8	watts

FREQUENCY RANGE

The 2C34 may be operated at maximum ratings up to 60 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.