

RK-42 RK-43

RK-42 TRIODE AMPLIFIER OSCILLATOR

The RK-42 is a low filament current triode type amplifier tube having an oxide coated filament. It is designed for use in portable equipment with dry cell filament supply.

FILAMENT RATING

Filament Voltage	1.5	volts
Filament Current	0.06	amp

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	6	μf
Input	3	μf
Output	2.1	μf

A-F AMPLIFIER—CLASS A MAXIMUM RATINGS

D-C Plate Voltage	180	volts
D-C Plate Current	7.5	ma

TYPICAL OPERATION

D-C Plate Voltage	180	volts
D-C Grid Voltage	-13.5	volts
D-C Plate Current	3.9	ma
Amplification Factor	8.2	
Plate Resistance	10300	ohms
Transconductance	800	μmhos

RAYTHEON AMATEUR TUBES

RK-43 TWIN TRIODE POWER AMPLIFIER OSCILLATOR

The RK-43 is a low filament current twin triode type amplifier tube having an oxide coated filament. It is designed for use in portable equipment with dry cell filament supply.

FILAMENT RATING

Filament Volt.	1.5	volts
Filament Cur.	0.12	amp

DIRECT INTERELECTRODE CAPACITANCES —EACH TRIODE

Grid to Plate	4.2	μf
Input	1.9	μf
Output	2.1	μf

A-F AMPLIFIER—CLASS A—ONE TRIODE

D-C Plate Voltage	135 max.	volts
D-C Grid Voltage	-4.5	volts
D-C Plate Current	3	ma
Amplification Factor	13	
Plate Resistance	14500	ohms
Transconductance	900	μmhos

A-F POWER AMPLIFIER—CLASS B MAXIMUM RATINGS

D-C Plate Voltage	135	volts
D-C Plate Current (Average—both triodes)	15	ma

TYPICAL OPERATION

D-C Plate Voltage	135	volts
D-C Grid Voltage	-6	volts
D-C Plate Current (no signal)	4	ma
D-C Plate Current (max. signal)	12.5	ma
D-C Grid Current (max. signal)	1	ma
Peak A-F Input Voltage (grid to grid)	24	volts
A-F Driving Power	27.5	mw
Load Resistance (plate to plate)	24000	ohms
Power Output	0.95	watt

R-F AMPLIFIER OR OSCILLATOR—CLASS C—PUSH-PULL MAXIMUM RATINGS

D-C Plate Voltage	135	volts
D-C Plate Current (Average—both triodes)	15	ma

TYPICAL OPERATION

D-C Plate Voltage	135	volts
D-C Grid Voltage	-20	volts
D-C Plate Current	14	ma
D-C Grid Current	3	ma
Peak R-F Input Voltage (grid to grid)	70	volts
R-F Driving Power	0.2	watts
Power Output	1.25	watts

