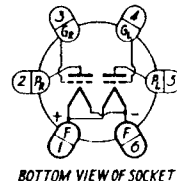
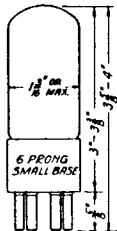
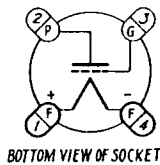
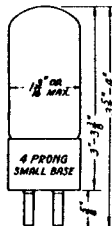


**RK-42  
TRIODE  
AMPLIFIER  
OSCILLATOR**

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.

**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 Voltage	1.5	volts
Filament Current	0.06	amp

**FILAMENT RATING**

Filament Volt.	1.5	volts
Filament Cur.	0.12	amp

**DIRECT INTERELECTRODE CAPACITANCES**

Grid to Plate	6	$\mu\mu\text{f}$
Input	3	$\mu\mu\text{f}$
Output	2.1	$\mu\mu\text{f}$

**DIRECT INTERELECTRODE CAPACITANCES  
—EACH TRIODE**

Grid to Plate	4.2	$\mu\mu\text{f}$
Input	1.9	$\mu\mu\text{f}$
Output	2.1	$\mu\mu\text{f}$

**A-F AMPLIFIER—CLASS A  
MAXIMUM RATINGS**

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

**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	$\mu\text{mhos}$

**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	$\mu\text{mhos}$

**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	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

