

Now!

Frequency-Rated Radio Frequency Choke Coils

Raypar engineering has provided the transmitter designer with a line of frequency-rated RF Choke Coils for efficient operation in parallel- or series-feed circuitry. Design of these chokes was based upon a new approach to the problem*, highly refined by Raypar through application of advanced winding and control techniques. The result is a series of high-Q inductors exhibiting extremely high shunt impedances (never below 300,000 ohms) throughout prescribed, wide frequency ranges.

For ease of installation, the entire line of choke coils was designed for one-hole mounting. RL-100, RL-101, RL-110, and RL-111 have long stand-off bases to provide a high breakdown path to the chassis.

RL-102 and RL-112 offer an alternate mounting style. Instead of the long stand-off base, each is fitted with a 6-32 screw stud for direct mounting atop a standard ceramic by-pass capacitor (not supplied). Ceramic capacitors with tapped bushings, regularly available for high frequency and TV high voltage applications, are suitable for this integrated mounting.

Amateurs will be especially interested in RL-100, RL-101, and RL-102 for low, medium, and high power operation of transmitters on the 10, 11, 15, 20, 40, and 80 meter bands. High frequency enthusiasts will welcome the availability of RL-110, RL-111, and RL-112 for transmitter operation on the 6, 10, 11, 15, and 20 amateur bands.

FREQUENCY RANGE: 3.5 — 22.5 & 26.9 — 31 MCS.

RAYPAR RL-100

Max. Tube Plate Voltage (DC).....	4000 CW, 3000 AM
Max. Tube Plate Current.....	800 ma.
Choke Inductance.....	96 uh
Breakdown Voltage to Chassis.....	18 kv.
Overall Mtd. Height.....	5 3/8 in.
User's Net Price.....	\$2.97 ea.

RAYPAR RL-101

Max. Tube Plate Voltage (DC).....	2000 CW, 1500 AM
Max. Tube Plate Current.....	500 ma.
Choke Inductance.....	120 uh
Breakdown Voltage to Chassis.....	12 kv.
Overall Mtd. Height.....	4 1/8 in.
User's Net Price.....	\$2.55 ea.

RAYPAR RL-102

Max. Tube Plate Voltage (DC).....	2000 CW, 1500 AM
Max. Tube Plate Current.....	500 ma.
Choke Inductance.....	120 uh
Breakdown Voltage to Chassis.....	Ltd. by Capacitor at Base
Overall Mtd. Height.....	3 1/4 in.
User's Net Price.....	\$2.55 ea.

FREQUENCY RANGE: 12 — 55 MCS.

RAYPAR RL-110

Max. Tube Plate Voltage (DC).....	4000 CW, 3000 AM
Max. Tube Plate Current.....	1500 ma.
Choke Inductance.....	15.7 uh
Breakdown Voltage to Chassis.....	18 kv.
Overall Mtd. Height.....	5 3/8 in.
User's Net Price.....	\$2.97 ea.

RAYPAR RL-111

Max. Tube Plate Voltage (DC).....	2000 CW, 1500 AM
Max. Tube Plate Current.....	500 ma.
Choke Inductance.....	20 uh
Breakdown Voltage to Chassis.....	12 kv.
Overall Mtd. Height.....	4 1/8 in.
User's Net Price.....	\$2.55 ea.

RAYPAR RL-112

Max. Tube Plate Voltage (DC).....	2000 CW, 1500 AM
Max. Tube Plate Current.....	500 ma.
Choke Inductance.....	20 uh
Breakdown Voltage to Chassis.....	Ltd. by Capacitor at Base
Overall Mtd. Height.....	3 1/4 in.
User's Net Price.....	\$2.55 ea.

*Reference: "R.F. Chokes for High-Power Parallel Feed" by C. Vernon Chambers, QST, May, 1954.

SPECIAL RANGES: Raypar invites your request to quote on similar RF Choke Coils to meet special frequency range requirements.

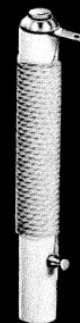
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Form RL 557-10

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RAYPAR ELECTRONIC COMPONENTS



RL-100



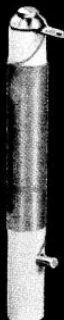
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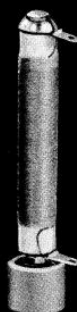
RL-102



RL-110



RL-111



RL-112

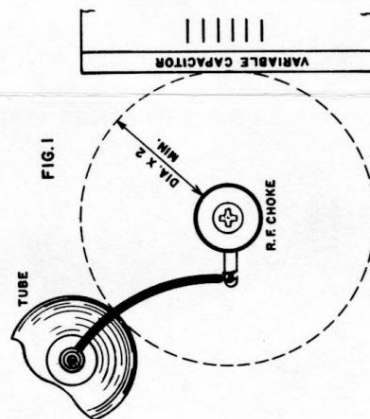
available from:

RAYPAR ELECTRONIC COMPONENTS

FREQUENCY-RATED R.F. CHOKE COILS

RL-100, RL-101, RL-102, RL-110, RL-111, & RL-112

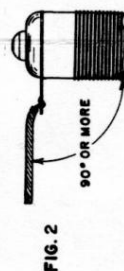
INSTRUCTION DATA



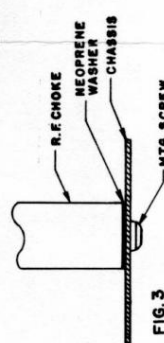
1. Keep choke coil at least two diameters away from associated circuit components in all directions. See Fig. 1.

2. Connect "hot" R.F. lead to upper choke terminal to form no less than a 90° angle to winding of coil. See Fig. 2. If copper strip is used for anode lead, mount strip under screw above choke's metal cap.

3. Choke terminal lead to modulator and/or power supply also should be dressed away from choke coil winding. When affixing lead to lower coil contact, handle special turret lug gently.



4. Mount RL-100, RL-101, RL-110 and RL-111 using the neoprene washer between the choke's stand-off base and chassis with the screw and lockwasher below. While gently tightening the mounting screw, hold choke with terminals directed for convenience to circuit connections.



5. Mount RL-102 or RL-112 atop ceramic capacitor having appropriate capacitance and voltage ratings for your circuit application. Capacitor should be equipped with a molded-in 6-32 bushing to take threaded stud supplied with choke coil. If RL-102 or RL-112 are not to be capacitor mounted, a suitable ceramic stand-off insulator should be fitted to stud at bottom of choke.

6. Don't alter choke windings either by removing turns or changing spacing between turns.

7. Don't disturb radial position of upper lug terminal when loosening top screw.

IMPORTANT: RL-100, RL-101, and RL-102 should not be operated in the vicinity of 25 mcs. where the coils' first series resonance is located. To be safe, avoid the range between 22.5 and 26.9 mcs. where the chokes' impedance falls below rated value.

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