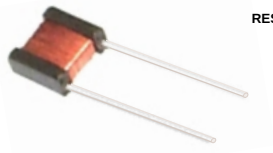
RESISTORS•CAPACITORS•COILS•DELAY LINES

FLAT RADIAL LEAD INDUCTOR COILS

FRL SERIES

RoHS Term.W is RoHS compliant & 260°C compatible

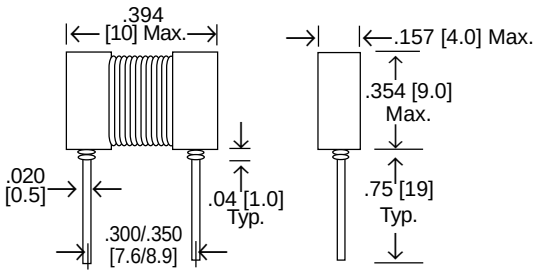


- ❒ Narrow size for densely populated boards
- ❒ Low cost
- ❒ High Q, high current
- ❒ 0.82µH to 10mH

RCD's FRL Series is an economical inductor with a space-saving flat coil design. The unique characteristics of the rectangular geometry enable a wide range of inductance and high Q levels for use at high frequencies. Construction is open-frame wirewound utilizing a ferrite core.

OPTIONS

- ❒ Option ER: Military Screening: per MIL-C-15305 (Thermal Shock -25/+85°, DCR, Inductance, Vis/Mech Insp)
- ❒ Option A: units marked with inductance value
- ❒ Option 55: 1KHz Test Frequency
- ❒ Non-standard values, increased current, increased temp.
- ❒ Encapsulated version



Inductance Value (µH)	Test Frequency (MHz)	Q (Min.)	DCR Max. (Ω)	Rated DC Current (Amp)
0.82	25	37	.010	7.4
1.0	7.9	40	.011	7.0
1.2	7.9	39	.012	6.0
1.5	7.9	33	.014	5.0
1.8	7.9	37	.020	4.8
2.2	7.9	38	.025	4.4
2.5	7.9	40	.030	4.1
2.7	7.9	43	.028	4.0
3.3	7.9	35	.036	3.7
3.9	7.9	37	.048	3.4
4.7	7.9	37	.053	3.2
5.0	7.9	40	.080	2.9
5.6	7.9	35	.092	2.8
6.8	7.9	29	.113	2.6
7.5	7.9	30	.114	2.5
8.2	7.9	32	.116	2.2
10	7.9	40	.160	2.1
12	2.5	40	.140	2.0
15	2.5	40	.158	1.6
18	2.5	40	.180	1.5
22	2.5	40	.230	1.4
27	2.5	50	.285	1.3
33	2.5	45	.346	1.2
39	2.5	45	.371	1.1
47	2.5	45	.502	1.0
56	2.5	40	.687	.95
68	2.5	40	.888	.90
75	2.5	40	1.19	.86
82	2.5	50	1.20	.85

Inductance Value (µH)	Test Frequency (MHz)	Q (Min.)	DCR Max. (Ω)	Rated DC Current (Amp)
100	2.5	60	1.60	.75
120	.79	70	1.72	.65
150	.79	60	1.95	.60
180	.79	70	2.07	.58
220	.79	50	2.18	.49
250	.79	40	2.70	.49
270	.79	50	2.53	.45
330	.79	50	3.33	.41
390	.79	45	3.45	.39
470	.79	40	5.20	.35
500	.79	35	5.30	.34
560	.79	40	5.40	.32
680	.79	45	5.90	.29
750	.79	30	6.00	.28
820	.79	40	6.32	.27
1000	.79	40	8.60	.22
1200	.25	70	10.0	.21
1500	.25	62	14.3	.19
1800	.25	62	15.8	.17
2200	.25	60	17.7	.15
2500	.25	60	18.0	.14
2700	.25	60	19.3	.14
3300	.25	50	21.7	.13
3900	.25	50	26.0	.12
4700	.25	50	29.9	.11
5000	.25	45	31.0	.10
6000	.25	35	41.0	.09
7500	.25	25	50.0	.08
10000	.25	25	70.0	.07

SPECIFICATIONS

Tolerance: ±10% standard (±5% and ±20% available)
Temperature Range: -40 to +105° C
Temperature Rise: 20° C typ. at full rated current

APPLICATIONS: Typical applications include noise filtering, DC/DC converters, switching regulators, audio equipment, telecom, RF circuits, audio filters, hash filters, power supplies, power amplifiers, etc. Customized models available for specific applications (consult factory).

P/N DESIGNATION:

FRL1 ❒ - 100 - K B W

RCD Type

Option Codes: ER, A, 55
(leave blank if standard)

Inductance (µH): 2 signif. digits & multiplier
R82=0.82µH, 1R0=1µH, 100=10µH, 101=100µH, 102=1000µH

Tolerance Code: K = 10% (std), J = 5%, M = 20%

Packaging: B = Bulk

Termination: W= Lead-free, Q= Tin/Lead
(leave blank if either is acceptable)

RCD Components Inc, 520 E. Industrial Park Dr, Manchester, NH, USA 03109 rcdcomponents.com Tel: 603-669-0054 Fax: 603-669-5455 Email:sales@rcdcomponents.com

FA011B Sale of this product is in accordance with GF-061. Specifications subject to change without notice.