



RL-8054-1 RL-8054-2, RL-8054-3

SHIELDED RADIAL CHOKE COIL WITH STAND-OFF



FEATURES

- Magnetically shielded with stand-off is incorporated to core body.
- Rugged reliability and performance fixed inductor.

APPLICATIONS

Excellent as DC-DC converter boost or buck inductors. Also used for noise filtering applications.

MATERIALS CONSTRUCTION

- Core: Ferrite DR Core
- Core: Ferrite RI Core
- Wire: Enameled Copper Wire
- Lead: Tinned Copper Wire
- Adhesive: Epoxy Resin

GENERAL SPECIFICATIONS

Temperature rise: 40°C max at I_{dc} and
 $\Delta L/LOA = 10\%$ max
 Operating Temperature: -20°C to +80°C
 Storage Temperature: -20°C to +85°C
 Resistance to solder heat: 260°C for 10 seconds

TAPE AND REEL PACKAGING

PART NUMBER	PIECES PER REEL	or	TYPE OF PACKAGING
RL-8054-1	300		Bag/Bulk
RL-8054-2	150		Bag/Bulk
RL-8054-3	150		Bag/Bulk

Figure A - RL-8054-1

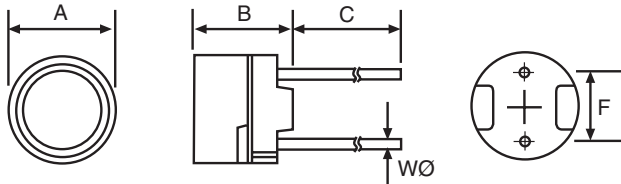
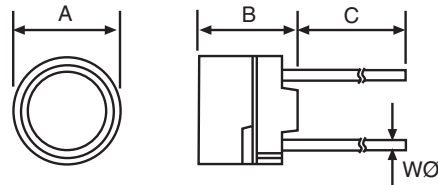


Figure B - RL-8054-2 and RL-8054-3



MECHANICAL DIMENSIONS (mm)

Part Number	A	B	C	F	WØ	Figure
RL-8054-1	7.8±0.5	7.50	15.0±3.0	5.0±0.5	0.65±0.05	A
RL-8054-2	10.0±0.5	8.0±0.5	15.0±3.0	6.4±0.3	0.65±0.05	B
RL-8054-3	10.0±0.5	10.0±0.5	15.0±3.0	6.4±0.3	0.65±0.05	B



RENCO ELECTRONICS, INC.

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Part Number	Inductance (μH)	Testing Freq (Hz)	DCR (Ω) Max	IDC (A) Max
RL-8054-1-220L1R6-S	22±15%	1V / 2.52M	0.08	1.60
RL-8054-1-270L1R4-S	27±15%	1V / 2.52M	0.10	1.40
RL-8054-1-330L1R3-S	33±15%	1V / 2.52M	0.14	1.30
RL-8054-1-390L1R2-S	39±15%	1V / 2.52M	0.15	1.20
RL-8054-1-470L1R1-S	47±15%	1V / 2.52M	0.17	1.10
RL-8054-1-560KR99-S	56±10%	1V / 2.52M	0.19	0.99
RL-8054-1-680KR89-S	68±10%	1V / 2.52M	0.21	0.89
RL-8054-1-820KR81-S	82±10%	1V / 2.52M	0.27	0.81
RL-8054-1-101KR74-S	100±10%	1V / 1K	0.32	0.74
RL-8054-1-121KR67-S	120±10%	1V / 1K	0.36	0.67
RL-8054-1-151KR60-S	150±10%	1V / 1K	0.51	0.60
RL-8054-1-181KR55-S	180±10%	1V / 1K	0.57	0.55
RL-8054-1-221KR50-S	220±10%	1V / 1K	0.76	0.50
RL-8054-1-271KR45-S	270±10%	1V / 1K	0.86	0.45
RL-8054-1-331KR41-S	330±10%	1V / 1K	0.97	0.41
RL-8054-1-391KR37-S	390±10%	1V / 1K	1.28	0.37
RL-8054-1-471KR34-S	470±10%	1V / 1K	1.44	0.34
RL-8054-1-561KR31-S	560±10%	1V / 1K	1.61	0.31
RL-8054-1-681KR28-S	680±10%	1V / 1K	2.07	0.28
RL-8054-1-821KR26-S	820±10%	1V / 1K	2.33	0.26
RL-8054-1-102KR23-S	1,000±10%	1V / 1K	2.72	0.23



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RL-8054-2-100M2R8-S	10 \pm 20%	1V / 2.52M	0.05	2.80
RL-8054-2-120M2R5-S	12 \pm 20%	1V / 2.52M	0.06	2.50
RL-8054-2-150M2R3-S	15 \pm 20%	1V / 2.52M	0.07	2.30
RL-8054-2-180M2R1-S	18 \pm 20%	1V / 2.52M	0.08	2.10
RL-8054-2-220M2R0-S	22 \pm 20%	1V / 2.52M	0.09	2.00
RL-8054-2-270M1R7-S	27 \pm 20%	1V / 2.52M	0.10	1.76
RL-8054-2-330M1R6-S	33 \pm 20%	1V / 2.52M	0.11	1.60
RL-8054-2-390M1R3-S	39 \pm 20%	1V / 2.52M	0.12	1.38
RL-8054-2-470M1R2-S	47 \pm 20%	1V / 2.52M	0.14	1.28
RL-8054-2-560K1R2-S	56 \pm 10%	1V / 2.52M	0.15	1.20
RL-8054-2-680K1R0-S	68 \pm 10%	1V / 2.52M	0.16	1.00
RL-8054-2-820KR96-S	82 \pm 10%	1V / 2.52M	0.18	0.96
RL-8054-2-101KR92-S	100 \pm 10%	1V / 1K	0.20	0.92
RL-8054-2-121KR80-S	120 \pm 10%	1V / 1K	0.24	0.80
RL-8054-2-151KR73-S	150 \pm 10%	1V / 1K	0.35	0.73
RL-8054-2-181KR64-S	180 \pm 10%	1V / 1K	0.40	0.64
RL-8054-2-221KR61-S	220 \pm 10%	1V / 1K	0.54	0.61
RL-8054-2-271KR56-S	270 \pm 10%	1V / 1K	0.76	0.56
RL-8054-2-331KR50-S	330 \pm 10%	1V / 1K	0.86	0.50
RL-8054-2-391KR44-S	390 \pm 10%	1V / 1K	0.93	0.44
RL-8054-2-471KR41-S	470 \pm 10%	1V / 1K	1.23	0.41
RL-8054-2-561KR38-S	560 \pm 10%	1V / 1K	1.34	0.38
RL-8054-2-681KR34-S	680 \pm 10%	1V / 1K	1.53	0.34
RL-8054-2-821KR32-S	820 \pm 10%	1V / 1K	2.10	0.32
RL-8054-2-102KR28-S	1,000 \pm 10%	1V / 1K	2.30	0.28



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Part Number	Inductance (μH)	Testing Freq (Hz)	DCR (Ω) Max	IDC (A) Max
RL-8054-3-100M3R5-S	10±20%	1V / 2.52M	0.023	3.51
RL-8054-3-120M3R2-S	12±20%	1V / 2.52M	0.024	3.24
RL-8054-3-150M2R8-S	15±20%	1V / 2.52M	0.036	2.88
RL-8054-3-180M2R6-S	18±20%	1V / 2.52M	0.039	2.61
RL-8054-3-220M2R3-S	22±20%	1V / 2.52M	0.042	2.34
RL-8054-3-270M2R1-S	27±20%	1V / 2.52M	0.045	2.16
RL-8054-3-330M1R8-S	33±20%	1V / 2.52M	0.057	1.89
RL-8054-3-390M1R8-S	39±20%	1V / 2.52M	0.076	1.80
RL-8054-3-470M1R6-S	47±20%	1V / 2.52M	0.100	1.62
RL-8054-3-560K1R4-S	56±10%	1V / 2.52M	0.110	1.44
RL-8054-3-680K1R3-S	68±10%	1V / 2.52M	0.150	1.35
RL-8054-3-820K1R2-S	82±10%	1V / 2.52M	0.160	1.26
RL-8054-3-101K1R0-S	100±10%	1V / 1K	0.190	1.08
RL-8054-3-121KR99-S	120±10%	1V / 1K	0.210	0.99
RL-8054-3-151KR90-S	150±10%	1V / 1K	0.230	0.90
RL-8054-3-181KR82-S	180±10%	1V / 1K	0.260	0.82
RL-8054-3-221KR74-S	220±10%	1V / 1K	0.290	0.74
RL-8054-3-271KR67-S	270±10%	1V / 1K	0.360	0.67
RL-8054-3-331KR61-S	330±10%	1V / 1K	0.510	0.61
RL-8054-3-391KR55-S	390±10%	1V / 1K	0.690	0.55
RL-8054-3-471KR51-S	470±10%	1V / 1K	0.980	0.51
RL-8054-3-561KR46-S	560±10%	1V / 1K	1.100	0.46
RL-8054-3-681KR42-S	680±10%	1V / 1K	1.200	0.42
RL-8054-3-821KR38-S	820±10%	1V / 1K	1.300	0.38
RL-8054-3-102KR35-S	1,000±10%	1V / 1K	1.500	0.35



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