

FIXED RADIAL LEAD INDUCTORS

- Three types available
- High Q and low temperature rise (20°C max. at rated current)
- Available in E12 series

RL0608/RL0812/RL1014 Series

Bourns® Leaded Inductors

These high quality radial fixed inductors are available from 1 µH to 100 mH with a standard tolerance of 10% (5% on request).

PART NUMBER

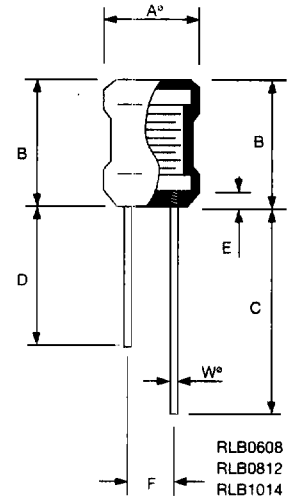
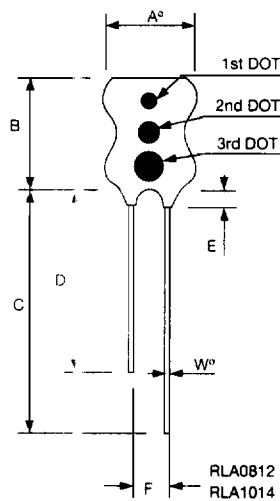
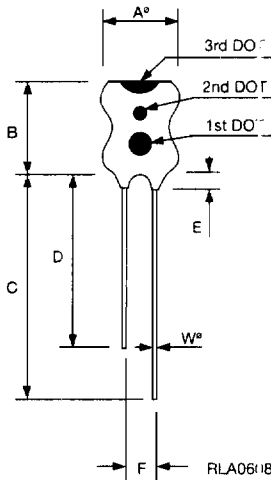
RL B 06 08 - 100 K
 (1) (2) (3) (4) (5) (6)

- (1) Radial lead type
- (2) A: Blue ceracoating
B: Tube cover
- (3) Outside diameter
- (4) Body height
- (5) Inductance
- (6) (J: ±5%, K: ±10%, M: ±20%)

MATERIALS

Core:Ferrite DR core
Wire:Enamelled copper wire
Lead:Tinned copper wire
Outer:.....RLA - Ceracoating (Standard color code
 RLB - Shrinkable tube

CONFIGURATION



Bourns P/N	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	W ₀ (mm)	Inductance Range
RL_0608	6.0 ⁺⁰	8.5 ⁺⁰	15.0 ⁺⁰	10.0 ⁺⁰	3.0 ⁺⁰	2.0	0.50	1.0 µH...1000 µH
RL_0812	8.0 ⁺⁰	12.0 ⁺⁰	15.0 ⁺⁰	10.0 ⁺⁰	3.0 ⁺⁰	3.0	0.65	47 µH...47 mH
RL_1014	10.0 ⁺⁰	14.0 ⁺⁰	15.0 ⁺⁰	10.0 ⁺⁰	3.0 ⁺⁰	5.0	0.65	100 µH...100 mH

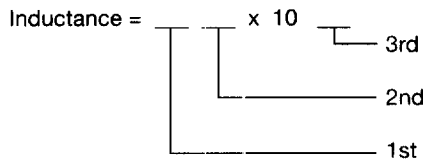
RL0608/RL0812/RL1014 Series

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STANDARD COLOR CODE

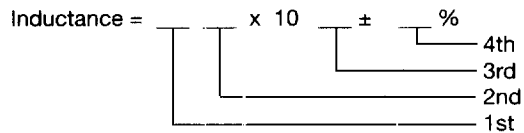
Color	Digit	Multiplier	Tolerance		
BK	Black	0	0	1	-
BN	Brown	1	1	10	-
R	Red	2	2	100	-
O	Orange	3	3	1000	±3%
Y	Yellow	4	4	-	-
GN	Green	5	5	-	-
BU	Blue	6	6	-	-
V	Violet	7	7	-	-
GY	Gray	8	8	-	-
W	White	9	9	-	-
GD	Golden	-	-	0.1	±5%
SIL	Silver	-	-	0.01	±10%
None (Body color)		-	-	-	±20%

3 COLOR CODE INDUCTANCE EXPRESSION



Example: 560 μH $\pm 20\%$ = 56 x 10¹ (GN, BU, BN)

4 COLOR CODE INDUCTANCE EXPRESSION



Example: 150 μH $\pm 10\%$ = 15 x 10¹ (BN, GN, BU, SIL)

RL0608/RL0812/RL1014 Series

Bourns® Leaded Inductors

RL0608 SERIES ELECTRICAL CHARACTERISTICS

BOURNS Part No.	Inductance μH	Q min.	Test freq. (MHz) L C	SRF kHz min.	DCI μA max.	IPC min.
RL 0608 - 1R0M	1.0 ± 20%	60	7.96	105.0	0.10	1030
- 1R2M	1.2 ± 20%	60	7.96	90.0	0.15	980
- 1R5M	1.5 ± 20%	60	7.96	75.0	0.20	920
- 1R8M	1.8 ± 20%	60	7.96	70.0	0.22	880
- 2R2M	2.2 ± 20%	60	7.96	65.0	0.24	830
- 2R7M	2.7 ± 20%	60	7.96	60.0	0.27	790
- 3R3M	3.3 ± 20%	60	7.96	50.0	0.30	750
- 3R9M	3.9 ± 20%	60	7.96	45.0	0.30	720
- 4R7M	4.7 ± 20%	60	7.96	40.0	0.35	670
- 5R6K	5.6 ± 10%	60	7.96	35.0	0.35	640
- 6R8K	6.8 ± 10%	60	7.96	30.0	0.40	620
- 8R2K	8.2 ± 10%	60	7.96	25.0	0.40	590
- 100K	10.0 ± 10%	60	2.52	20.0	0.45	550
- 120K	12.0 ± 10%	60	2.52	15.0	0.50	530
- 150K	15.0 ± 10%	60	2.52	13.0	0.55	500
- 180K	18.0 ± 10%	60	2.52	11.0	0.60	480
- 220K	22.0 ± 10%	60	2.52	10.0	0.65	460
- 270K	27.0 ± 10%	60	2.52	9.0	0.75	430
- 330K	33.0 ± 10%	60	2.52	8.0	0.85	410
- 390K	39.0 ± 10%	60	2.52	7.5	0.90	390
- 470K	47.0 ± 10%	60	2.52	7.0	1.00	370
- 560K	56.0 ± 10%	60	2.52	6.5	1.20	350
- 680K	68.0 ± 10%	60	2.52	6.0	1.30	340
- 820K	82.0 ± 10%	60	2.52	5.5	1.50	320
- 101K	100.0 ± 10%	60	0.796	5.0	1.70	305
- 121K	120.0 ± 10%	60	0.796	4.8	1.90	290
- 151K	150.0 ± 10%	60	0.796	4.4	2.10	275
- 181K	180.0 ± 10%	60	0.796	4.2	2.30	235
- 221K	220.0 ± 10%	45	0.796	3.8	2.50	200
- 271K	270.0 ± 10%	45	0.796	3.6	2.75	180
- 331K	330.0 ± 10%	45	0.796	3.3	4.68	165
- 391K	390.0 ± 10%	45	0.796	3.0	6.00	150
- 471K	470.0 ± 10%	45	0.796	2.8	6.50	140
- 561K	560.0 ± 10%	45	0.796	2.4	8.50	135
- 681K	680.0 ± 10%	45	0.796	2.2	9.00	125
- 821K	820.0 ± 10%	45	0.796	2.0	9.60	120
- 102K	1000.0 ± 10%	45	0.252	1.8	11.50	100

Packaging: 500 pieces in bags; 5000 pieces in a box

RL0608/RL0812/RL1014 Series

Bourns® Leaded Inductors

RL0812 SERIES ELECTRICAL CHARACTERISTICS

BOURNS Part No.	Inductance (μ H)	Q min.	Test freq. (MHz) L Q	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
RL 0812 - 470K	47 \pm 10%	30	2.520	6.00	0.40	450
- 560K	56 \pm 10%	30	2.520	5.50	0.45	400
- 680K	68 \pm 10%	30	2.520	5.00	0.50	360
- 820K	82 \pm 10%	30	2.520	4.50	0.50	340
- 101K	100 \pm 10%	45	0.796	4.20	0.60	320
- 121K	120 \pm 10%	45	0.796	3.60	0.70	300
- 151K	150 \pm 10%	45	0.796	3.40	0.90	280
- 181K	180 \pm 10%	45	0.796	3.20	1.00	260
- 221K	220 \pm 10%	45	0.796	3.00	1.20	240
- 271K	270 \pm 10%	45	0.796	2.80	1.40	220
- 331K	330 \pm 10%	45	0.796	2.50	1.60	200
- 391K	390 \pm 10%	45	0.796	2.30	1.80	180
- 471K	470 \pm 10%	45	0.796	2.20	2.00	160
- 561K	560 \pm 10%	45	0.796	2.00	2.50	150
- 681K	680 \pm 10%	45	0.796	1.70	2.90	140
- 821K	820 \pm 10%	45	0.796	1.50	3.10	130
- 102K	1000 \pm 10%	45	0.252	1.40	3.90	120
- 122K	1200 \pm 10%	60	0.252	1.10	4.40	110
- 152K	1500 \pm 10%	60	0.252	0.90	6.00	100
- 182K	1800 \pm 10%	60	0.252	0.80	7.00	90
- 222K	2200 \pm 10%	60	0.252	0.75	8.00	80
- 272K	2700 \pm 10%	60	0.252	0.70	9.00	70
- 332K	3300 \pm 10%	60	0.252	0.60	12.00	60
- 392K	3900 \pm 10%	60	0.252	0.55	14.00	55
- 472K	4700 \pm 10%	60	0.252	0.50	16.00	50
- 562K	5600 \pm 10%	60	0.252	0.48	18.00	45
- 682K	6800 \pm 10%	60	0.252	0.44	24.00	40
- 822K	8200 \pm 10%	60	0.252	0.40	30.00	36
- 103K	10000 \pm 10%	60	0.0796	0.36	39.00	34
- 123K	12000 \pm 10%	60	0.0796	0.32	46.00	32
- 153K	15000 \pm 10%	60	0.0796	0.30	54.00	30
- 183K	18000 \pm 10%	60	0.0796	0.28	76.00	27
- 223K	22000 \pm 10%	60	0.0796	0.24	92.00	25
- 273K	27000 \pm 10%	60	0.0796	0.20	102.00	22
- 333K	33000 \pm 10%	60	0.0796	0.16	140.00	20
- 393K	39000 \pm 10%	60	0.0796	0.13	150.00	18
- 473K	47000 \pm 10%	60	0.0796	0.10	162.00	16

Packaging: 500 pieces in bags; 5,000 pieces in a box

RL0608/RL0812/RL1014 Series

Bourns® Leaded Inductors

RL1014 SERIES ELECTRICAL CHARACTERISTICS

Bourns Part No.	Inductance (μH)	Q min.	Test freq. (MHz) L Q	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
RL 1014 - 101K	100 ± 10%	15	796.0	3.20	0.85	350
- 121K	120 ± 10%	15	796.0	3.00	0.95	330
- 151K	150 ± 10%	15	796.0	2.80	1.05	310
- 181K	180 ± 10%	15	796.0	2.50	1.15	300
- 221K	220 ± 10%	10	796.0	2.10	1.30	280
- 271K	270 ± 10%	10	796.0	2.00	1.50	260
- 331K	330 ± 10%	10	796.0	1.95	1.70	240
- 391K	390 ± 10%	10	796.0	1.85	1.85	230
- 471K	470 ± 10%	15	796.0	1.55	2.30	210
- 561K	560 ± 10%	15	796.0	1.30	2.55	200
- 681K	680 ± 10%	15	796.0	1.15	2.85	190
- 821K	820 ± 10%	15	796.0	1.00	3.10	180
- 102K	1000 ± 10%	10	252.0	0.90	4.10	160
- 122K	1200 ± 10%	10	252.0	0.80	4.70	150
- 152K	1500 ± 10%	10	252.0	0.70	5.80	130
- 182K	1800 ± 10%	10	252.0	0.60	7.40	115
- 222K	2200 ± 10%	10	252.0	0.55	8.40	110
- 272K	2700 ± 10%	10	252.0	0.50	9.60	95
- 332K	3300 ± 10%	10	252.0	0.45	10.50	80
- 392K	3900 ± 10%	10	252.0	0.40	12.00	70
- 472K	4700 ± 10%	15	252.0	0.38	14.00	65
- 562K	5600 ± 10%	15	252.0	0.36	16.00	60
- 682K	6800 ± 10%	10	252.0	0.34	18.00	55
- 822K	8200 ± 10%	10	252.0	0.32	24.50	50
- 103K	10000 ± 10%	10	79.6	0.30	32.00	45
- 123K	12000 ± 10%	10	79.6	0.28	36.00	40
- 153K	15000 ± 10%	10	79.6	0.26	48.00	35
- 183K	18000 ± 10%	5	79.6	0.24	52.00	30
- 223K	22000 ± 10%	5	79.6	0.22	58.00	28
- 273K	27000 ± 10%	5	79.6	0.20	62.00	26
- 333K	33000 ± 10%	5	79.6	0.18	90.00	24
- 393K	39000 ± 10%	10	79.6	0.17	100.00	22
- 473K	47000 ± 10%	15	79.6	0.16	150.00	20
- 563K	56000 ± 10%	15	79.6	0.15	200.00	18
- 683K	68000 ± 10%	15	79.6	0.14	220.00	16
- 823K	82000 ± 10%	10	79.6	0.12	240.00	14
- 104K	100000 ± 10%	10	25.2	0.10	300.00	12

Packaging: 300 pieces in bags; 3000 pieces in a box