



RL-7700-1C, RL-7700-2C RL-7700-3C, RL-7700-4C

STANDARD CERAMIC WIREWOUND CHIP INDUCTORS



FEATURES

- Ceramic core wire wound construction.
- No batch to batch variations in inductance.
- High reliability due to ceramic wirewound construction.

APPLICATIONS

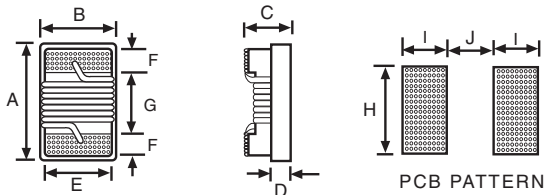
Widely used in the communication applications such as cellular phones, pagers and other high frequency electronics devices.

SPECIFICATIONS

Operating Temperature range: -40°C to +125°C
Storage Temperature: -40°C to +125°C

PRECAUTIONS

- After mounting components onto printed circuit board, be careful not to bend or mishandle the board.
- When hand soldering, apply solder iron to the printed circuit board only. Temperature of the iron tip should not exceed 260°C with soldering time < 3 seconds.
- Reflow soldering condition:
230°C for 10s max.



PART NUMBER IDENTIFICATION

RL-7700 -2 C 4N7 K
(1) (2) (3) (4) (5)

- (1) SERIES NAME
- (2) DIMENSIONS
- (3) TYPE CODE C - Ceramic
- (4) INDUCTANCE CODE
- (5) TOLERANCE CODE
G - ±2% J - ±5%
K - ±10%

PACKAGING

Part Number	Pieces per reel	Plastic reel size
RL-7700-1	4,000	7"
RL-7700-2	4,000	7"
RL-7700-3	2,000	7"
RL-7700-4	2,000	7"

MECHANICAL DIMENSIONS (mm)

Part Number	A Max.	B Max.	C Max.	D Ref.	E Max.	F Max.	G Max.	H Max.	I Max.	J Max.
RL-7700-1C	1.27	0.76	0.61	0.15	0.51	0.23	0.56	0.66	0.50	0.46
RL-7700-2C	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64
RL-7700-3C	2.29	1.73	1.52	0.51	1.27	0.44	1.02	1.78	1.02	0.76
RL-7700-4C	2.92	2.79	2.03	0.65	2.03	0.51	1.52	2.54	1.02	1.27



RENCO ELECTRONICS, INC.

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(321) 637-1000 • Toll Free Engineering Hot line 800-645-5828

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Part Number	Tolerance Available	L (nH)	Test Freq. (MHz)	Q Min.	SRF Min. (MHz)	DCR Max. (Ω)	IDC Max. (mA)	900 MHz L Typ.	900 MHz Q Typ.	1.7GHz L Typ.	1.7 GHz Q Typ.
RL-7700-1C-1N0	K	1.0	250	16	6000	0.045	1360	1.02	77	1.02	69
RL-7700-1C-2N0	K,J	2.0	250	16	6000	0.070	1040	1.93	54	1.93	75
RL-7700-1C-2N2	K,J	2.2	250	19	6000	0.070	960	2.19	59	2.23	100
RL-7700-1C-3N3	K,J	3.3	250	19	6000	0.066	840	3.10	65	3.12	87
RL-7700-1C-3N6	K,J	3.6	250	19	6000	0.066	840	3.56	45	3.62	71
RL-7700-1C-3N9	K,J	3.9	250	19	5800	0.066	840	3.89	50	4.00	75
RL-7700-1C-5N1	K,J	5.1	250	20	5800	0.083	800	5.15	56	5.25	82
RL-7700-1C-5N6	K,J	5.6	250	20	5800	0.083	760	5.16	54	5.28	81
RL-7700-1C-6N2	K,J	6.2	250	20	5800	0.083	760	6.16	52	6.37	76
RL-7700-1C-7N5	K,J	7.5	250	22	5800	0.104	680	7.91	60	8.22	88
RL-7700-1C-8N2	K,J	8.2	250	22	4400	0.104	680	8.50	57	8.85	84
RL-7700-1C-9N0	K,J	9.0	250	22	4160	0.104	680	9.07	62	9.53	78
RL-7700-1C-10N	K,J	10.0	250	21	3900	0.195	480	9.80	50	10.10	67
RL-7700-1C-11N	K,J	11.0	250	24	3680	0.120	640	10.70	52	11.20	78
RL-7700-1C-12N	K,J	12.0	250	24	3600	0.120	640	11.90	53	12.70	71
RL-7700-1C-15N	K,J	15.0	250	24	3280	0.172	560	14.60	55	15.50	77
RL-7700-1C-19N	K,J	19.0	250	24	3040	0.202	480	19.10	50	21.10	67
RL-7700-1C-23N	K,J	23.0	250	24	2720	0.214	400	23.80	49	26.90	64
RL-7700-1C-27N	K,J	27.0	250	24	2480	0.298	400	28.70	49	33.50	63
RL-7700-1C-36N	K,J	36.0	250	24	2320	0.403	320	39.50	44	48.40	53
RL-7700-1C-40N	K,J	40.0	250	24	2240	0.500	320	39.00	44	47.40	33
RL-7700-1C-47N	K,J	47.0	250	20	2100	0.830	250	50.00	38	-	-
RL-7700-1C-56N	K,J	56.0	250	25	2000	1.117	200	-	-	-	-

Test Equipment: Agilent / HP 4287 + Agilent / HP 8753D or HP 4291A



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RL-7700-2C-1N6	K,J	1.6	250	16	6000	0.040	700	1.53	35	1.58	55
RL-7700-2C-1N8	K,J	1.8	250	16	6000	0.040	700	1.63	35	1.66	50
RL-7700-2C-3N3	K,J	3.3	250	22	6000	0.080	700	3.35	47	3.40	65
RL-7700-2C-3N6	K,J	3.6	250	22	5800	0.063	700	3.53	49	3.58	65
RL-7700-2C-3N9	K,J	3.9	250	22	6000	0.080	700	3.95	49	3.96	67
RL-7700-2C-4N3	K,J	4.3	250	22	5800	0.063	700	4.32	49	4.43	67
RL-7700-2C-4N7	K,J	4.7	250	25	5800	0.120	700	4.65	53	4.80	67
RL-7700-2C-5N1	K,J	5.1	250	20	5800	0.160	700	5.13	47	5.36	56
RL-7700-2C-5N6	K,J	5.6	250	20	5800	0.170	700	5.53	56	5.86	77
RL-7700-2C-6N8	K,J,G	6.8	250	27	5800	0.110	700	6.75	60	7.10	81
RL-7700-2C-7N5	K,J,G	7.5	250	27	4800	0.110	700	7.39	62	7.71	81
RL-7700-2C-8N2	K,J,G	8.2	250	27	4800	0.110	700	8.25	64	8.40	81
RL-7700-2C-8N7	K,J,G	8.7	250	27	4800	0.110	700	8.84	62	9.38	58
RL-7700-2C-9N5	K,J,G	9.5	250	27	4800	0.130	700	9.64	59	10.50	61
RL-7700-2C-10N	K,J,G	10.0	250	31	4800	0.130	700	10.00	66	10.60	83
RL-7700-2C-11N	K,J,G	11.0	250	31	4000	0.086	700	11.30	53	12.10	56
RL-7700-2C-12N	K,J,G	12.0	250	35	4000	0.130	700	12.30	72	13.50	83
RL-7700-2C-15N	K,J,G	15.0	250	35	4000	0.170	700	15.40	64	16.80	89
RL-7700-2C-16N	K,J,G	16.0	250	35	3300	0.110	700	16.50	55	18.00	52
RL-7700-2C-18N	K,J,G	18.0	250	35	3100	0.170	700	18.70	70	21.40	69
RL-7700-2C-22N	K,J,G	22.0	250	38	3000	0.190	700	22.80	73	26.10	71
RL-7700-2C-24N	K,J,G	24.0	250	38	2800	0.130	700	25.70	45	30.90	40
RL-7700-2C-27N	K,J,G	27.0	250	40	2800	0.220	600	29.20	74	34.60	65
RL-7700-2C-30N	K,J,G	30.0	250	40	2800	0.153	600	31.40	47	39.80	28
RL-7700-2C-33N	K,J,G	33.0	250	40	2300	0.220	600	36.00	67	49.50	42
RL-7700-2C-36N	K,J,G	36.0	250	40	2800	0.250	600	39.10	47	48.90	24
RL-7700-2C-39N	K,J,G	39.0	250	40	2200	0.250	600	42.70	60	60.20	40
RL-7700-2C-43N	K,J,G	43.0	200	38	2000	0.280	600	49.90	44	60.30	21
RL-7700-2C-47N	K,J,G	47.0	200	38	2000	0.280	600	52.20	62	77.20	35
RL-7700-2C-56N	K,J,G	56.0	200	38	1900	0.310	600	62.50	56	97.0	26
RL-7700-2C-68N	K,J,G	68.0	250	37	1700	0.340	600	80.50	64	168.0	21
RL-7700-2C-72N	K,J,G	72.0	150	34	1700	0.490	400	82.00	53	135.0	20
RL-7700-2C-82N	K,J,G	82.0	150	34	1700	0.540	400	96.20	54	177.0	21
RL-7700-2C-R10	K,J,G	100.0	150	34	1400	0.580	400	124.00	49	-	-
RL-7700-2C-R11	K,J,G	110.0	150	32	1350	0.610	300	138.00	43	-	-
RL-7700-2C-R12	K,J,G	120.0	150	32	1300	0.650	300	166.00	39	-	-
RL-7700-2C-R15	K,J,G	150.0	100	32	1300	0.950	280	230.00	25	-	-
RL-7700-2C-R18	K,J,G	180.0	100	25	1250	1.400	250	300.00	20	-	-
RL-7700-2C-R22	K,J,G	220.0	100	25	1200	1.600	250	440.00	15	-	-
RL-7700-2C-R27	K,J,G	270.0	100	25	3900	2.100	200	580.00	12	-	-
RL-7700-2C-R33	K,J,G	330.0	100	25	1900	3.800	100	440.00	15	-	-
RL-7700-2C-R39	K,J,G	390.0	100	25	3900	4.350	100	580.00	12	-	-

Test Equipment: Agilent / HP 4287 + Agilent / HP 8753D or HP 4291A



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Part Number	Tolerance Available	L (nH)	L Test Freq. (MHz)	Q Min.	Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC Max. (mA)
RL-7700-3C-2N8	K,J	2.8	250.00	80	1500	7900	0.060	800
RL-7700-3C-3N0	K,J	3.0	250.00	65	1500	7900	0.060	800
RL-7700-3C-3N3	K,J	3.3	250.00	50	1500	6000	0.080	600
RL-7700-3C-5N6	K,J	5.6	250.00	65	1000	5500	0.080	600
RL-7700-3C-6N8	K,J	6.8	250.00	50	1000	5500	0.110	600
RL-7700-3C-7N5	K,J	7.5	250.00	50	1000	4500	0.140	600
RL-7700-3C-8N2	K,J	8.2	250.00	50	1000	4700	0.120	600
RL-7700-3C-10N	K,J,G	10.0	250.00	60	500	4200	0.100	600
RL-7700-3C-12N	K,J,G	12.0	250.00	50	500	4000	0.150	600
RL-7700-3C-15N	K,J,G	15.0	250.00	50	500	3400	0.170	600
RL-7700-3C-18N	K,J,G	18.0	250.00	50	500	3300	0.200	600
RL-7700-3C-22N	K,J,G	22.0	250.00	55	500	2600	0.220	500
RL-7700-3C-24N	K,J,G	24.0	250.00	50	500	2000	0.220	500
RL-7700-3C-27N	K,J,G	27.0	250.00	55	500	2500	0.250	500
RL-7700-3C-33N	K,J,G	33.0	250.00	60	500	2050	0.270	500
RL-7700-3C-36N	K,J,G	36.0	250.00	55	500	1700	0.270	500
RL-7700-3C-39N	K,J,G	39.0	250.00	60	500	2000	0.290	500
RL-7700-3C-43N	K,J,G	43.0	200.00	60	500	1650	0.340	500
RL-7700-3C-47N	K,J,G	47.0	200.00	60	500	1650	0.310	500
RL-7700-3C-56N	K,J,G	56.0	200.00	60	500	1550	0.340	500
RL-7700-3C-68N	K,J,G	68.0	200.00	60	500	1450	0.380	500
RL-7700-3C-82N	K,J,G	82.0	150.00	65	500	1300	0.420	400
RL-7700-3C-91N	K,J,G	91.0	150.00	65	500	1200	0.480	400
RL-7700-3C-R10	K,J,G	100.0	150.00	65	500	1200	0.460	400
RL-7700-3C-R11	K,J,G	110.0	150.00	50	250	1000	0.480	400
RL-7700-3C-R12	K,J,G	120.0	150.00	50	250	1100	0.510	400
RL-7700-3C-R15	K,J,G	150.0	100.00	50	250	920	0.560	400
RL-7700-3C-R18	K,J,G	180.0	100.00	50	250	870	0.640	400
RL-7700-3C-R22	K,J,G	220.0	100.00	50	250	850	0.700	400
RL-7700-3C-R24	K,J,G	240.0	100.00	44	250	690	1.00	350
RL-7700-3C-R27	K,J,G	270.0	100.00	48	250	650	1.00	350
RL-7700-3C-R33	K,J,G	330.0	100.00	48	250	600	1.40	310
RL-7700-3C-R39	K,J,G	390.0	100.00	48	250	560	1.50	290
RL-7700-3C-R47	K,J,G	470.0	50.00	33	100	375	1.70	220
RL-7700-3C-R56	K,J,G	560.0	25.00	23	50	340	1.90	210
RL-7700-3C-R62	K,J,G	620.0	25.00	23	50	220	2.20	210
RL-7700-3C-R68	K,J,G	680.0	25.00	23	50	200	2.20	190
RL-7700-3C-R75	K,J,G	750.0	25.00	23	50	200	2.30	180
RL-7700-3C-R82	K,J,G	820.0	25.00	23	50	200	2.35	180
RL-7700-3C-1R0	K,J,G	1000.0	25.00	20	50	100	2.50	170
RL-7700-3C-1R2	K,J,G	1200.0	7.96	18	25	100	2.50	170
RL-7700-3C-1R5	K,J,G	1500.0	7.96	16	25	100	2.50	170
RL-7700-3C-1R8	K,J,G	1800.0	7.96	16	7.96	80	2.50	170
RL-7700-3C-2R2	K,J,G	2200.0	7.96	16	7.96	60	2.70	160
RL-7700-3C-2R7	K,J,G	2700.0	7.96	16	7.96	50	2.95	150

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RL-7700-4C-4N7	K	4.7	50.00	50	500	4100	0.080	1000
RL-7700-4C-5N6	K	5.6	50.00	50	500	4100	0.150	1000
RL-7700-4C-10N	K,J	10.0	50.00	50	500	4100	0.080	1000
RL-7700-4C-12N	K,J	12.0	50.00	50	500	3300	0.090	1000
RL-7700-4C-15N	K,J	15.0	50.00	50	500	2500	0.110	1000
RL-7700-4C-18N	K,J	18.0	50.00	50	350	2400	0.120	1000
RL-7700-4C-22N	K,J	22.0	50.00	55	350	2400	0.120	1000
RL-7700-4C-27N	K,J	27.0	50.00	55	350	1600	0.130	1000
RL-7700-4C-33N	K,J,G	33.0	50.00	60	350	1600	0.140	1000
RL-7700-4C-39N	K,J,G	39.0	50.00	60	350	1500	0.150	1000
RL-7700-4C-47N	K,J,G	47.0	50.00	65	350	1500	0.160	1000
RL-7700-4C-56N	K,J,G	56.0	50.00	65	350	1300	0.180	1000
RL-7700-4C-68N	K,J,G	68.0	50.00	65	350	1300	0.200	1000
RL-7700-4C-82N	K,J,G	82.0	50.00	60	350	1000	0.220	1000
RL-7700-4C-R10	K,J,G	100.0	25.00	60	350	1000	0.560	650
RL-7700-4C-R12	K,J,G	120.0	25.00	60	350	950	0.630	650
RL-7700-4C-R15	K,J,G	150.0	25.00	45	100	850	0.700	580
RL-7700-4C-R18	K,J,G	180.0	25.00	45	100	750	0.770	620
RL-7700-4C-R22	K,J,G	220.0	25.00	45	100	700	0.840	500
RL-7700-4C-R27	K,J,G	270.0	25.00	45	100	600	0.910	500
RL-7700-4C-R33	K,J,G	330.0	25.00	45	100	570	1.05	450
RL-7700-4C-R39	K,J,G	390.0	25.00	45	100	500	1.12	470
RL-7700-4C-R47	K,J,G	470.0	25.00	45	100	450	1.19	470
RL-7700-4C-R56	K,J,G	560.0	25.00	45	100	415	1.33	400
RL-7700-4C-R62	K,J,G	620.0	25.00	45	100	375	1.40	300
RL-7700-4C-R68	K,J,G	680.0	25.00	45	100	375	1.47	400
RL-7700-4C-R75	K,J,G	750.0	25.00	45	100	360	1.54	360
RL-7700-4C-R82	K,J,G	820.0	25.00	45	100	350	1.61	400
RL-7700-4C-R91	K,J,G	910.0	25.00	35	50	320	1.68	380
RL-7700-4C-1R0	K,J,G	1000.0	25.00	35	50	290	1.75	370
RL-7700-4C-1R2	K,J,G	1200.0	7.96	35	50	250	2.00	310
RL-7700-4C-1R5	K,J,G	1500.0	7.96	28	50	200	2.30	330
RL-7700-4C-1R8	K,J,G	1800.0	7.96	28	50	160	2.60	300
RL-7700-4C-2R2	K,J,G	2200.0	7.96	28	50	160	2.80	280
RL-7700-4C-2R7	K,J,G	2700.0	7.96	22	25.2	140	3.20	290
RL-7700-4C-3R3	K,J,G	3300.0	7.96	22	25.2	110	3.40	290
RL-7700-4C-3R9	K,J,G	3900.0	7.96	20	25.2	100	3.60	260
RL-7700-4C-4R7	K,J,G	4700.0	7.96	20	25.2	90	4.00	260
RL-7700-4C-5R6	K,J,G	5600.0	7.96	16	7.96	20	4.00	240
RL-7700-4C-6R8	K,J,G	6800.0	7.96	18	7.96	40	4.90	200
RL-7700-4C-8R2	K,J,G	8200.0	7.96	18	7.96	25	6.00	170
RL-7700-4C-100	K,J,G	10000.0	2.52	18	7.96	20	9.00	150
RL-7700-4C-120	K,J,G	12000.0	2.52	18	7.96	18	10.5	130
RL-7700-4C-150	K,J,G	15000.0	2.52	18	7.96	15	11.5	120

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