

# MULTILAYER CHIP INDUCTORS / CL TYPE

## FEATURES

- ◆ High mounting density of compact circuit due to crosstalk elimination that results from a closed magnetic flux in a ferrite material
- ◆ Suitable for flow and re-flow soldering
- ◆ Available in 3 sizes

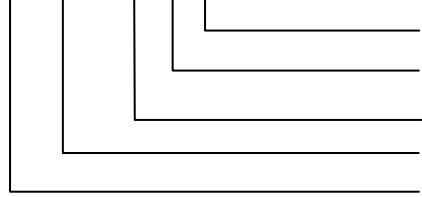


## APPLICATIONS

- ◆ Personal computers, HDDs, or other various electronic appliances.
- ◆ Any general circuit of portable equipment in which compact size and high mounting densities are required.

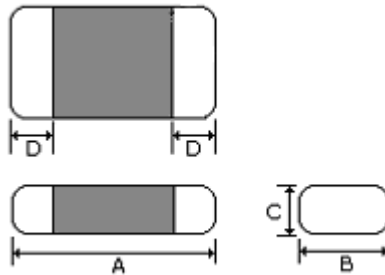
## ORDERING CODE

CL 1608 - 8R2 □ - N



Note: lead-free  
Tolerance (K:±10%, M:±20%)  
Inductance  
Dimension (AxB)  
Product Symbol

## SHAPES



## DIMENSIONS UNIT: mm (inch)

Part No.	Dimensions			
	A	B	C	D
CL 1608 (0603)	1.60 ± 0.15	0.80 ± 0.15	0.80 ± 0.15	0.30 ± 0.20
CL 2012 (0805)	2.00 ± 0.20	1.25 ± 0.20	0.85 ± 0.20	0.50 ± 0.30
CL 3216 (1206)	3.20 ± 0.20	1.60 ± 0.20	1.10 ± 0.30	0.50 ± 0.30



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## MULTILAYER CHIP INDUCTORS / CL TYPE

### ELECTRICAL CHARACTERISTICS FOR CL1608

Part No.	Inductance (uH)	Test Freq. (MHz) 60mV	Q Min	Self Resonant FREQ. (MHz) Min	DC Resistance (Ω) Max	Rated Current (mA) Max
CL 1608-47N □-N	0.047	50	10	260	0.30	50
CL 1608-68N □-N	0.068	50	10	250	0.30	50
CL 1608-82N □-N	0.082	50	10	245	0.30	50
CL 1608-R10 □-N	0.10	25	15	240	0.50	50
CL 1608-R12 □-N	0.12	25	15	205	0.50	50
CL 1608-R15 □-N	0.15	25	15	180	0.60	50
CL 1608-R18 □-N	0.18	25	15	165	0.60	50
CL 1608-R22 □-N	0.22	25	15	150	0.80	50
CL 1608-R27 □-N	0.27	25	15	136	0.80	50
CL 1608-R33 □-N	0.33	25	15	125	0.85	35
CL 1608-R39 □-N	0.39	25	15	110	1.00	35
CL 1608-R47 □-N	0.47	25	15	105	1.35	35
CL 1608-R56 □-N	0.56	25	15	95	1.50	35
CL 1608-R68 □-N	0.68	25	15	85	1.70	35
CL 1608-R82 □-N	0.82	25	15	75	2.10	35
CL 1608-1R0 □-N	1.0	10	30	65	0.60	25
CL 1608-1R2 □-N	1.2	10	30	60	0.80	25
CL 1608-1R5 □-N	1.5	10	30	55	0.80	25
CL 1608-1R8 □-N	1.8	10	30	50	0.95	25
CL 1608-2R2 □-N	2.2	10	30	45	1.15	15
CL 1608-2R7 □-N	2.7	10	30	40	1.35	15
CL 1608-3R3 □-N	3.3	10	30	38	1.55	15
CL 1608-3R9 □-N	3.9	10	30	36	1.70	15
CL 1608-4R7 □-N	4.7	10	30	33	2.10	15
CL 1608-5R6 □-N	5.6	4	30	22	1.55	15
CL 1608-6R8 □-N	6.8	4	30	20	1.70	15
CL 1608-8R2 □-N	8.2	4	30	18	2.10	15
CL 1608-100 □-N	10	2	30	17	2.55	15

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## MULTILAYER CHIP INDUCTORS / CL TYPE

### ELECTRICAL CHARACTERISTICS FOR CL2012

Part No.	Inductance (uH)	Test Freq. (MHz) 60mV	Q Min	Self Resonant FREQ. (MHz) Min	DC Resistance (Ω) Max	Rated Current (mA) Max
CL 2012-47N □-N	0.047	50	15	320	0.20	300
CL 2012-68N □-N	0.068	50	15	280	0.20	300
CL 2012-82N □-N	0.082	50	15	255	0.20	300
CL 2012-R10 □-N	0.10	25	20	235	0.30	250
CL 2012-R12 □-N	0.12	25	20	220	0.30	250
CL 2012-R15 □-N	0.15	25	20	200	0.40	250
CL 2012-R18 □-N	0.18	25	20	185	0.40	250
CL 2012-R22 □-N	0.22	25	20	170	0.50	250
CL 2012-R27 □-N	0.27	25	20	150	0.50	250
CL 2012-R33 □-N	0.33	25	20	145	0.55	250
CL 2012-R39 □-N	0.39	25	25	135	0.65	200
CL 2012-R47 □-N	0.47	25	25	125	0.65	200
CL 2012-R56 □-N	0.56	25	25	115	0.75	150
CL 2012-R68 □-N	0.68	25	25	105	0.80	150
CL 2012-R82 □-N	0.82	25	25	100	1.00	150
CL 2012-1R0 □-N	1.0	10	45	75	0.40	50
CL 2012-1R2 □-N	1.2	10	45	65	0.50	50
CL 2012-1R5 □-N	1.5	10	45	60	0.50	50
CL 2012-1R8 □-N	1.8	10	45	55	0.60	50
CL 2012-2R2 □-N	2.2	10	45	50	0.65	30
CL 2012-2R7 □-N	2.7	10	45	45	0.75	30
CL 2012-3R3 □-N	3.3	10	45	41	0.80	30
CL 2012-3R9 □-N	3.9	10	45	38	0.90	30
CL 2012-4R7 □-N	4.7	10	45	35	1.00	30
CL 2012-5R6 □-N	5.6	4	45	32	0.90	15
CL 2012-6R8 □-N	6.8	4	45	29	1.00	15
CL 2012-8R2 □-N	8.2	4	45	26	1.10	15
CL 2012-100 □-N	10	2	45	24	1.15	15

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## MULTILAYER CHIP INDUCTORS / CL TYPE

### ELECTRICAL CHARACTERISTICS FOR CL3216

Part No.	Inductance (uH)	Test Freq. (MHz)	Q Min	Self Resonant FREQ. (MHz) Min	DC Resistance (Ω) Max	Rated Current (mA) Max
CL 3216-47N □-N	0.047	50	20	320	0.15	300
CL 3216-68N □-N	0.068	50	20	280	0.25	300
CL 3216-82N □-N	0.082	50	20	260	0.25	300
CL 3216-R10 □-N	0.10	25	25	235	0.25	250
CL 3216-R12 □-N	0.12	25	25	220	0.30	250
CL 3216-R15 □-N	0.15	25	25	200	0.30	250
CL 3216-R18 □-N	0.18	25	25	185	0.40	250
CL 3216-R22 □-N	0.22	25	25	170	0.40	250
CL 3216-R27 □-N	0.27	25	25	150	0.50	250
CL 3216-R33 □-N	0.33	25	25	145	0.50	250
CL 3216-R39 □-N	0.39	25	25	135	0.60	250
CL 3216-R47 □-N	0.47	25	25	125	0.60	200
CL 3216-R56 □-N	0.56	25	25	115	0.70	200
CL 3216-R68 □-N	0.68	25	25	105	0.80	150
CL 3216-R82 □-N	0.82	25	25	100	0.90	150
CL 3216-1R0 □-N	1.0	10	45	75	0.40	100
CL 3216-1R2 □-N	1.2	10	45	65	0.50	100
CL 3216-1R5 □-N	1.5	10	45	60	0.50	50
CL 3216-1R8 □-N	1.8	10	45	55	0.50	50
CL 3216-2R2 □-N	2.2	10	45	50	0.60	50
CL 3216-2R7 □-N	2.7	10	45	45	0.60	50
CL 3216-3R3 □-N	3.3	10	45	41	0.70	50
CL 3216-3R9 □-N	3.9	10	45	38	0.80	50
CL 3216-4R7 □-N	4.7	10	45	35	0.90	50
CL 3216-5R6 □-N	5.6	4	50	32	0.70	25
CL 3216-6R8 □-N	6.8	4	50	29	0.80	25
CL 3216-8R2 □-N	8.2	4	50	26	0.90	25
CL 3216-100 □-N	10	4	50	24	1.00	25

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