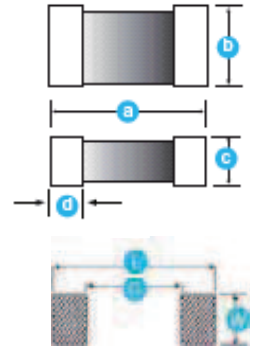
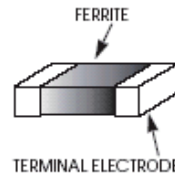
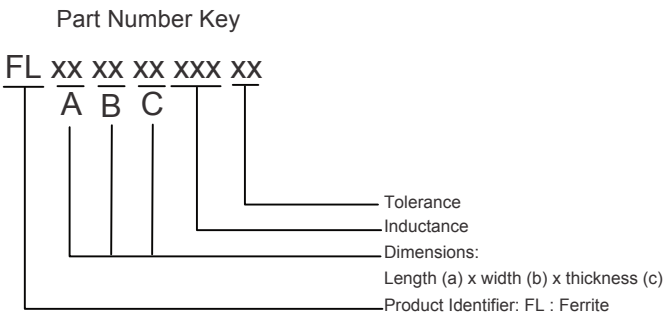


SMD MULTI-LAYER CHIP INDUCTORS

Mechanical Dimensions: (Unit:mm)

P/N Package Size	a	b	c	d	L	W	G
FL160808 (0603)	1.6 ± 0.2 (0.063 ± 0.008)	0.8 ± 0.2 (0.031 ± 0.008)	0.8 ± 0.2 (0.031 ± 0.008)	0.3 ± 0.2 (0.012 ± 0.008)	1.4 (0.055)	0.5 (0.020)	0.5 (0.020)
FL201209 (0805)	2.0 ± 0.2 (0.079 ± 0.008)	1.2 ± 0.2 (0.047 ± 0.008)	0.9 ± 0.2 (0.035 ± 0.008)	0.5 ± 0.3 (0.020 ± 0.012)	2.6 (0.102)	1.0 (0.039)	1.0 (0.039)
FL201212 (0805)	2.0 ± 0.2 (0.079 ± 0.008)	1.2 ± 0.2 (0.047 ± 0.008)	1.2 ± 0.2 (0.047 ± 0.008)	0.5 ± 0.3 (0.020 ± 0.012)	2.6 (0.102)	1.0 (0.039)	1.0 (0.039)

Part Number Key & Mechanical Drawing



Features

- a Tolerance: M : ±20% 、 L : ±15% 、 K: ± 10% .
- b The product' s material: ferrite.
- c No cross coupling between inductors due to magnetic shield. Ideal for high-density installation.
- d Superior Q characteristics guaranteed over the wide frequency and allow high frequency application.
- e The completely monolithic structure gives high reliable surface mount application.
- f Operating temperature range: -40° C ~ +125° C.
- g Both flow and IR reflow application are possible.
- h Inductance Range:
 - FL1608 (0603) Serial: Multilayer Ferrite Chip inductor 、 From 0.047uH(50mA) to 12.0uH(3mA)
 - FL2012 (0805) Serial: Multilayer Ferrite Chip inductor 、 From 0.047uH(300mA) to 12.0uH(15mA)
 - FL3216(1206) Serial: Multilayer Ferrite Chip inductor 、 From 0.047uH(300mA) to 33.0uH(5mA)

Standard FL160808 (0603) Series

Part Number.	Inductance (μH)	Q MIN.	L、Q test Frequency (MHz)	Self-Resonant Frequency (MHz) MIN.	DC Resistance(Ω) MAX.	RATED CURRENT (mA) MAX.
FL160808-47NM-LFR	0.047 \pm 20%	10	50	260	0.30	50
FL160808-68NM-LFR	0.068 \pm 20%	10	50	250	0.30	50
FL160808-R10K-LFR	0.10 \pm 10%	15	25	240	0.50	50
FL160808-R12K-LFR	0.12 \pm 10%	15	25	205	0.50	50
FL160808-R15K-LFR	0.15 \pm 10%	15	25	180	0.60	50
FL160808-R18K-LFR	0.18 \pm 10%	15	25	165	0.60	50
FL160808-R22K-LFR	0.22 \pm 10%	15	25	150	0.80	50
FL160808-R27K-LFR	0.27 \pm 10%	15	25	136	0.80	50
FL160808-R33K-LFR	0.33 \pm 10%	15	25	125	0.85	35
FL160808-R39K-LFR	0.39 \pm 10%	15	25	110	1.00	35
FL160808-R47K-LFR	0.47 \pm 10%	15	25	105	1.35	35
FL160808-R56K-LFR	0.56 \pm 10%	15	25	95	1.55	35
FL160808-R68K-LFR	0.68 \pm 10%	15	25	90	1.70	35
FL160808-R82K-LFR	0.82 \pm 10%	15	25	85	2.10	35
FL160808-1R0K-LFR	1.0 \pm 10%	35	10	75	0.60	25
FL160808-1R2K-LFR	1.2 \pm 10%	35	10	65	0.80	25
FL160808-1R5K-LFR	1.5 \pm 10%	35	10	60	0.80	25
FL160808-1R8K-LFR	1.8 \pm 10%	35	10	55	0.95	25
FL160808-2R2K-LFR	2.2 \pm 10%	35	10	50	1.15	15
FL160808-2R7K-LFR	2.7 \pm 10%	35	10	45	1.35	15
FL160808-3R3K-LFR	3.3 \pm 10%	35	10	40	1.55	15
FL160808-3R9K-LFR	3.9 \pm 10%	35	10	35	1.70	15
FL160808-4R7K-LFR	4.7 \pm 10%	35	10	33	2.10	15
FL160808-5R6K-LFR	5.6 \pm 10%	35	4	22	1.55	5
FL160808-6R8K-LFR	6.8 \pm 10%	35	4	20	1.70	5
FL160808-8R2K-LFR	8.2 \pm 10%	35	4	18	2.10	5
FL160808-100K-LFR	10 \pm 10%	30	2	17	1.85	3
FL160808-120K-LFR	12 \pm 10%	30	2	15	2.10	3

■ Inductance tolerance

K = \pm 10%

L = \pm 15%

M = \pm 20%