

Surface Mount Multilayer Ferrite Chip Inductors, 0603 - 1206 Industry Sizes

- Inductance Range 0.047µH to 33.0µH
- Standard Tolerance ±10%
- Operating Temperature Range
 - Standard: -25°C to +85°C
 - Optional Extended Temperature Range: -40°C to +125°C
- Ambient Temperature, Maximum 80°C
- Resistance to Solder Heat 260°C for 10 sec
- Resistance to Solvent Per MIL-STD-202F

0603 Specifications / Packaging

Part Number	Dim. T Inch/mm Tol: ±.006/0.15	Inductance µH	Q Min.	Test Frequency MHz	SRF MHz Min.	DC Resistance Ω Max.	Rated Current IDC mA*	7" Reel Qty (Units)
BML0603-R047K	.031/0.8	0.047	10	50	260	0.25	50	4K
BML0603-R068K	.031/0.8	0.068	10	50	250	0.25	50	4K
BML0603-R082K	.031/0.8	0.082	10	50	245	0.25	50	4K
BML0603-R10K	.031/0.8	0.10	15	25	240	0.50	50	4K
BML0603-R12K	.031/0.8	0.12	15	25	235	0.50	50	4K
BML0603-R15K	.031/0.8	0.15	15	25	205	0.60	50	4K
BML0603-R18K	.031/0.8	0.18	15	25	190	0.60	50	4K
BML0603-R22K	.031/0.8	0.22	15	25	170	0.80	50	4K
BML0603-R27K	.031/0.8	0.27	15	25	155	0.80	50	4K
BML0603-R33K	.031/0.8	0.33	15	25	140	0.80	35	4K
BML0603-R39K	.031/0.8	0.39	15	25	125	1.00	35	4K
BML0603-R47K	.031/0.8	0.47	15	25	120	1.00	35	4K
BML0603-R56K	.031/0.8	0.56	15	25	110	1.55	35	4K
BML0603-R68K	.031/0.8	0.68	15	25	100	1.70	35	4K
BML0603-R82K	.031/0.8	0.82	15	25	95	2.10	35	4K
BML0603-1R0K	.031/0.8	1.0	35	10	85	0.60	25	4K
BML0603-1R2K	.031/0.8	1.2	35	10	70	0.80	25	4K
BML0603-1R5K	.031/0.8	1.5	35	10	65	0.80	25	4K
BML0603-1R8K	.031/0.8	1.8	35	10	60	0.80	25	4K
BML0603-2R2K	.031/0.8	2.2	35	10	55	1.00	15	4K
BML0603-2R7K	.031/0.8	2.7	35	10	50	1.20	15	4K
BML0603-3R3K	.031/0.8	3.3	35	10	45	1.40	15	4K
BML0603-3R9K	.031/0.8	3.9	40	10	42	1.60	15	4K
BML0603-4R7K	.031/0.8	4.7	40	10	40	1.80	15	4K

0805 Specifications / Packaging

Part Number	Dim. T Inch/mm Tol: ±.008/0.2	Inductance µH	Q Min.	Test Frequency MHz	SRF MHz Min.	DC Resistance Ω Max.	Rated Current IDC mA*	7" Reel Qty (Units)
BML0805-R047K	.035/0.9	0.047	20	50	320	0.20	300	4K
BML0805-R068K	.035/0.9	0.068	20	50	280	0.20	300	4K
BML0805-R082K	.035/0.9	0.082	20	50	275	0.20	300	4K
BML0805-R10K	.035/0.9	0.10	20	25	255	0.30	250	4K
BML0805-R12K	.035/0.9	0.12	20	25	250	0.30	250	4K
BML0805-R15K	.035/0.9	0.15	20	25	230	0.40	250	4K
BML0805-R18K	.035/0.9	0.18	20	25	210	0.40	250	4K
BML0805-R22K	.035/0.9	0.22	20	25	195	0.50	250	4K
BML0805-R27K	.035/0.9	0.27	20	25	170	0.50	250	4K
BML0805-R33K	.035/0.9	0.33	20	25	165	0.50	250	4K

0805 Specifications / Packaging

Part Number	Dim. T Inch/mm Tol: ±.008/0.2	Inductance μH	Q Min.	Test Frequency MHz	SRF MHz Min.	DC Resistance Ω Max.	Rated Current IDC mA*	7" Reel Qty (Unit)
BML0805-R39K	.035/0.9	0.39	25	25	155	0.60	200	4K
BML0805-R47K	.049/1.25	0.47	25	25	140	0.60	200	3K
BML0805-R56K	.049/1.25	0.56	25	25	130	0.70	150	3K
BML0805-R68K	.049/1.25	0.68	25	25	120	0.80	150	3K
BML0805-R82K	.049/1.25	0.82	25	25	115	1.00	150	3K
BML0805-1R0K	.035/0.9	1.0	45	10	85	0.40	50	4K
BML0805-1R2K	.035/0.9	1.2	45	10	75	0.50	50	4K
BML0805-1R5K	.035/0.9	1.5	45	10	65	0.50	50	4K
BML0805-1R8K	.035/0.9	1.8	45	10	60	0.60	50	4K
BML0805-2R2K	.035/0.9	2.2	45	10	55	0.60	30	4K
BML0805-2R7K	.049/1.25	2.7	45	10	50	0.70	30	3K
BML0805-3R3K	.049/1.25	3.3	45	10	45	0.80	30	3K
BML0805-3R9K	.049/1.25	3.9	45	10	44	0.90	30	3K
BML0805-4R7K	.049/1.25	4.7	45	10	41	1.00	30	3K
BML0805-5R6K	.049/1.25	5.6	50	4	37	0.90	15	3K
BML0805-6R8K	.049/1.25	6.8	50	4	34	1.00	15	3K
BML0805-8R2K	.049/1.25	8.2	50	4	30	1.10	15	3K
BML0805-100K	.049/1.25	10.0	50	2	28	1.00	15	3K
BML0805-120K	.049/1.25	12.0	50	2	26	1.10	15	3K
BML0805-150K	.049/1.25	15.0	35	1	22	0.80	5	3K
BML0805-180K	.049/1.25	18.0	35	1	21	0.90	5	3K
BML0805-220K	.049/1.25	22.0	35	1	19	1.10	5	3K
BML0805-270K	.049/1.25	27.0	30	1	14	1.15	5	3K
BML0805-330K	.049/1.25	33.0	30	0.4	13	1.25	5	3K

1206 Specifications / Packaging

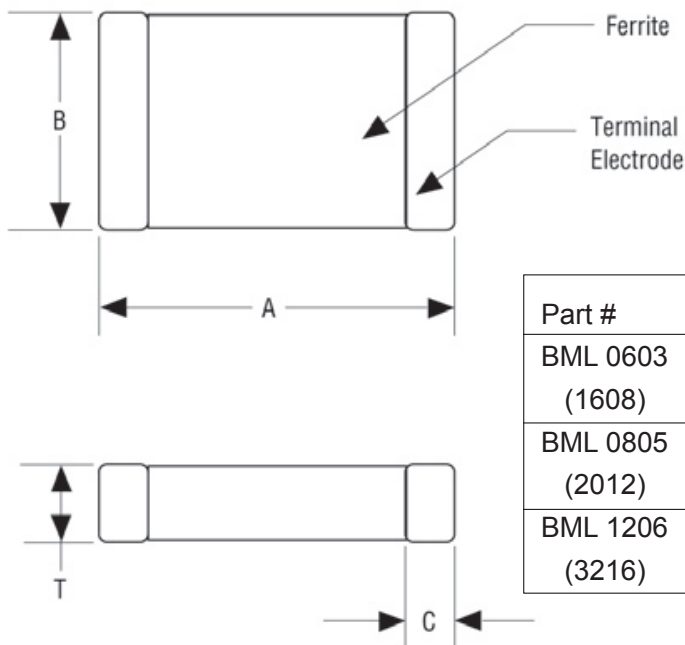
Part Number	Dim. T Inch/mm Tol: ±.008/0.20	Inductance μH	Q Min.	Test Frequency MHz	SRF MHz Min.	DC Resistance Ω Max.	Rated Current IDC mA*	7" Reel Qty (Units)
BML1206-R047K	.043/1.10	0.047	20	50	320	0.15	300	3K
BML1206-R068K	.043/1.10	0.068	20	50	280	0.25	300	3K
BML1206-R10K	.043/1.10	0.10	20	25	270	0.25	250	3K
BML1206-R12K	.043/1.10	0.12	20	25	250	0.30	250	3K
BML1206-R15K	.043/1.10	0.15	20	25	200	0.30	250	3K
BML1206-R18K	.043/1.10	0.18	20	25	185	0.40	250	3K
BML1206-R22K	.043/1.10	0.22	20	25	170	0.40	250	3K
BML1206-R27K	.043/1.10	0.27	20	25	150	0.50	250	3K
BML1206-R33K	.043/1.10	0.33	20	25	145	0.50	250	3K
BML1206-R39K	.043/1.10	0.39	25	25	135	0.50	200	3K
BML1206-R47K	.043/1.10	0.47	25	25	125	0.60	200	3K
BML1206-R56K	.043/1.10	0.56	25	25	115	0.70	150	3K
BML1206-R68K	.043/1.10	0.68	25	25	105	0.80	150	3K
BML1206-R82K	.043/1.10	0.82	25	25	100	0.90	150	3K
BML1206-1R0K	.043/1.10	1.0	45	10	87	0.40	100	3K
BML1206-1R2K	.043/1.10	1.2	45	10	75	0.50	100	3K
BML1206-1R5K	.043/1.10	1.5	45	10	69	0.50	50	3K
BML1206-1R8K	.043/1.10	1.8	45	10	64	0.50	50	3K
BML1206-2R2K	.043/1.10	2.2	45	10	58	0.60	50	3K
BML1206-2R7K	.043/1.10	2.7	45	10	52	0.60	50	3K
BML1206-3R3K	.043/1.10	3.3	45	10	48	0.70	50	3K
BML1206-3R9K	.043/1.10	3.9	45	10	44	0.80	50	3K
BML1206-4R7K	.043/1.10	4.7	45	10	41	0.90	50	3K
BML1206-5R6K	.043/1.10	5.6	50	4	32	0.80	25	3K

1206 Specifications / Packaging

Part Number	Dim. T Inch/mm Tol: $\pm 0.008/0.20$	Inductance μH	Q Min.	Test Frequency MHz	SRF MHz Min.	DC Resistance Ω Max.	Rated Current IDC mA*	7" Reel Qty (Units)
BML1206-6R8K	.043/1.10	6.8	50	4	29	0.90	25	3K
BML1206-8R2K	.043/1.10	8.2	50	4	26	1.00	25	3K
BML1206-100K	.043/1.10	10.0	50	2	26	0.60	25	3K
BML1206-120K	.043/1.10	12.0	50	2	26	0.60	15	3K
BML1206-150K	.043/1.10	15.0	50	1	22	0.70	5	3K
BML1206-180K	.043/1.10	18.0	50	1	21	0.70	5	3K
BML1206-220K	.043/1.10	22.0	50	1	19	0.90	5	3K
BML1206-270K	.043/1.10	27.0	50	1	17	0.90	5	3K
BML1206-330K	.043/1.10	33.0	50	0.4	15	1.05	5	3K

*Current Rating: The current at which a smaller change of inductance will occur due to either temperature increases or DC Current Superposition.

Outline Dimensions (Inches/mm)



Part #	A Dim.	B Dim.	C Dim.
BML 0603 (1608)	$.063 \pm .006$ 1.6 ± 0.15	$.031 \pm .006$ 0.8 ± 0.15	$.012 \pm .008$ 0.3 ± 0.20
BML 0805 (2012)	$.079 \pm .008$ 2 ± 0.20	$.049 \pm .008$ 1.25 ± 0.20	$.02 \pm .012$ 0.5 ± 0.30
BML 1206 (3216)	$.126 \pm .008$ 3.2 ± 0.20	$.063 \pm .008$ 1.6 ± 0.20	$.02 \pm .012$ 0.5 ± 0.30

Refer to Specifications table for 'T' dimension of each model.

Ordering Information

