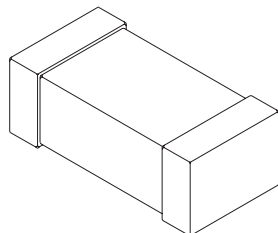




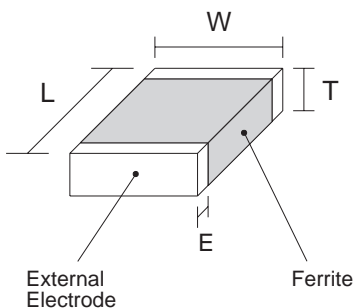
Multilayer Chip Inductors

ML0603 Series



General Specifications

Inductance Range: 0.047 uH to 4.7 uH
 Storage Temp: -40°C to + 85°C
 Operating Temp: -20°C to + 85°C
 Resistance to Solder Heat: 260°C, 10 Seconds
 Resistance to Solvent: Per MIL-STD-202F



Dimensions

Size Code	L	W	T	E
ML0603	.064"±.008	.032"±.008	.032"±.008	.012"±.008

ML0603 Series

Part No.	Inductance (uH)	Inductance Tolerance	Q Min.	Test Freq. L, Q (MHz)	Self-resonant Frequency (MHz) Min.	DC Resistance (Ω) Max.	Rated Current (mA) Max.
ML0603-47N	0.047	±20%	10	50	260	0.3	50
ML0603-68N	0.068	±20%	10	50	250	0.3	50
ML0603-82N	0.082	±20%	10	50	245	0.3	50
ML0603-R10	0.10	±20%, ±10%	15	25	240	0.5	50
ML0603-R12	0.12	±20%, ±10%	15	25	205	0.5	50
ML0603-R15	0.15	±20%, ±10%	15	25	180	0.6	50
ML0603-R18	0.18	±20%, ±10%	15	25	165	0.6	50
ML0603-R22	0.22	±20%, ±10%	15	25	150	0.8	50
ML0603-R27	0.27	±20%, ±10%	15	25	136	0.8	50
ML0603-R33	0.33	±20%, ±10%	15	25	125	0.85	35
ML0603-R39	0.39	±20%, ±10%	15	25	110	1	35
ML0603-R47	0.47	±20%, ±10%	15	25	105	1.35	35
ML0603-R56	0.56	±20%, ±10%	15	25	95	1.55	35
ML0603-R68	0.68	±20%, ±10%	15	25	90	1.7	35
ML0603-R82	0.82	±20%, ±10%	15	25	85	2.1	35
ML0603-1R0	1.0	±20%, ±10%	35	10	75	0.6	25
ML0603-1R2	1.2	±20%, ±10%	35	10	65	0.8	25
ML0603-1R5	1.5	±20%, ±10%	35	10	60	0.8	25
ML0603-1R8	1.8	±20%, ±10%	35	10	55	0.95	25
ML0603-2R2	2.2	±20%, ±10%	35	10	50	1.15	15
ML0603-2R7	2.7	±20%, ±10%	35	10	45	1.35	15
ML0603-3R3	3.3	±20%, ±10%	35	10	40	1.55	15
ML0603-3R9	3.9	±20%, ±10%	35	10	35	1.7	15
ML0603-4R7	4.7	±20%, ±10%	35	10	33	2.1	15

Specifications are subject to change without notice.

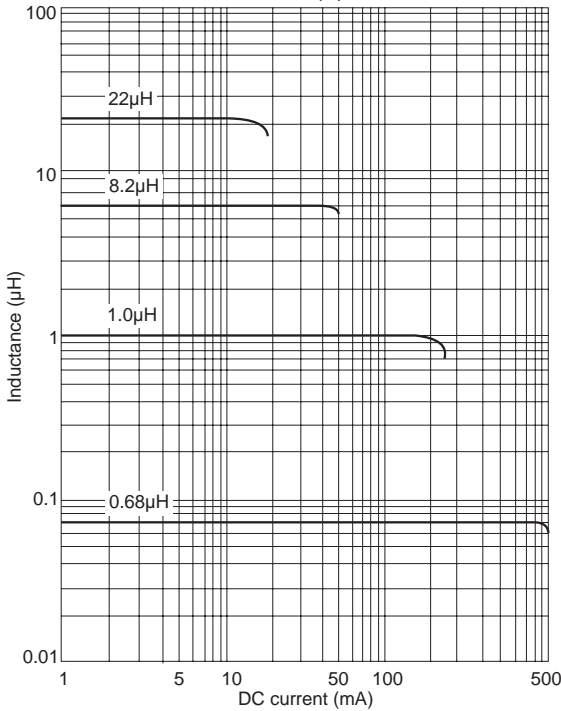


Multilayer Chip Inductors

ML0603 Series • Performance Curves

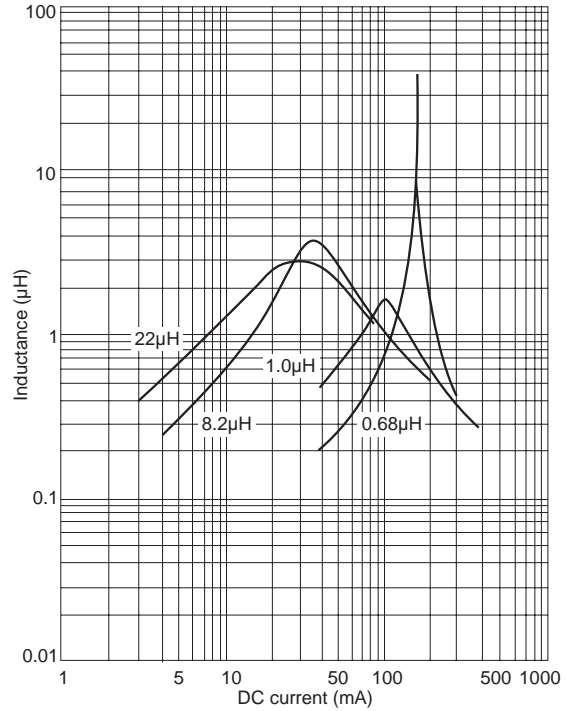
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

Test equipment: LCR meter 4291A



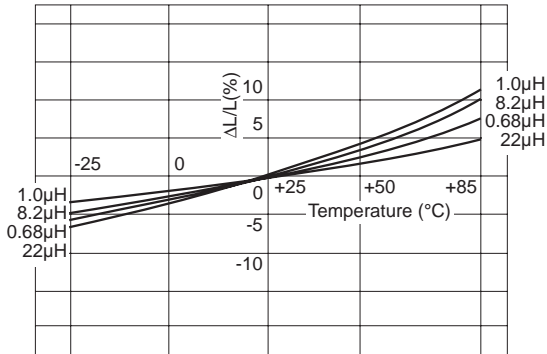
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

Test equipment: Impedance analyzer 4291A



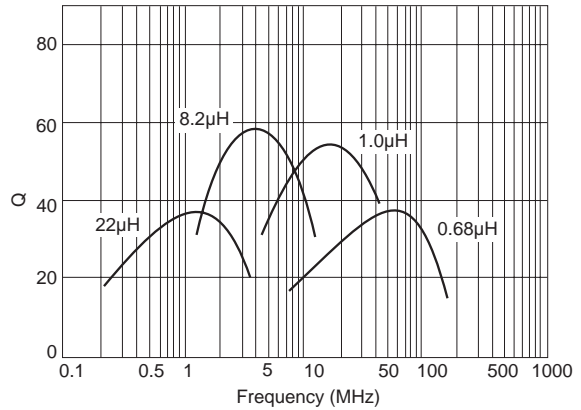
INDUCTANCE vs. TEMPERATURE CHARACTERISTICS

Test equipment: LCR meter 4291A



Q vs. FREQUENCY CHARACTERISTICS

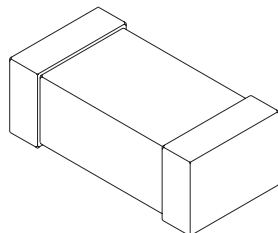
Test equipment: Impedance analyzer 4291A





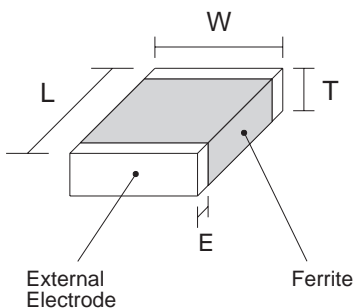
Multilayer Chip Inductors

ML0805 Series



General Specifications

Inductance Range:	0.047 uH to 27 uH
Storage Temp:	-40°C to + 85°C
Operating Temp:	-20°C to + 85°C
Resistance to Solder Heat:	260°C, 10 Seconds
Resistance to Solvent:	Per MIL-STD-202F



Dimensions

Size Code	L	W	T	E
ML0805	.08"±.008	.05"±.008	.036"±.008	.024"±.008

ML0805 Series

Part No.	Inductance (uH)	Inductance Tolerance	Q Min.	Test Freq. L, Q (MHz)	Self-resonant Frequency (MHz) Min.	DC Resistance (Ω) Max.	Rated Current (mA) Max.
ML0805-47N	0.047	±20%	15	50	320	0.2	300
ML0805-68N	0.068	±20%	15	50	280	0.2	300
ML0805-82N	0.082	±20%	15	50	255	0.2	300
ML0805-R10	0.10	±20%, ±10%	20	25	235	0.3	300
ML0805-R12	0.12	±20%, ±10%	20	25	220	0.3	250
ML0805-R15	0.15	±20%, ±10%	20	25	200	0.4	250
ML0805-R18	0.18	±20%, ±10%	20	25	185	0.4	250
ML0805-R22	0.22	±20%, ±10%	20	25	170	0.5	250
ML0805-R27	0.27	±20%, ±10%	20	25	150	0.5	250
ML0805-R33	0.33	±20%, ±10%	20	25	145	0.55	250
ML0805-R39	0.39	±20%, ±10%	25	25	135	0.65	250
ML0805-R47	0.47	±20%, ±10%	25	25	125	0.65	200
ML0805-R56	0.56	±20%, ±10%	25	25	115	0.75	200
ML0805-R68	0.68	±20%, ±10%	25	25	105	0.8	150
ML0805-R82	0.82	±20%, ±10%	25	25	100	1.0	150
ML0805-1R0	1.0	±20%, ±10%	45	10	75	0.4	150
ML0805-1R2	1.2	±20%, ±10%	45	10	65	0.5	50
ML0805-1R5	1.5	±20%, ±10%	45	10	60	0.5	50
ML0805-1R8	1.8	±20%, ±10%	45	10	55	0.6	50
ML0805-2R2	2.2	±20%, ±10%	45	10	50	0.65	50
ML0805-2R7	2.7	±20%, ±10%	45	10	45	0.75	30
ML0805-3R3	3.3	±20%, ±10%	45	10	41	0.8	30
ML0805-3R9	3.9	±20%, ±10%	45	10	38	0.9	30
ML0805-4R7	4.7	±20%, ±10%	45	10	35	1.0	30
ML0805-5R6	5.6	±20%, ±10%	50	4	32	0.9	30
ML0805-6R8	6.8	±20%, ±10%	50	4	29	1.0	15
ML0805-8R2	8.2	±20%, ±10%	50	4	26	1.1	15
ML0805-100	10	±20%, ±10%	50	2	24	1.15	15
ML0805-120	12	±20%, ±10%	50	2	22	1.25	15
ML0805-150	15	±20%, ±10%	30	1	19	0.8	15
ML0805-180	18	±20%, ±10%	30	1	18	0.9	5
ML0805-220	22	±20%, ±10%	30	1	16	1.1	5
ML0805-270	27	±20%, ±10%	30	1	14	1.15	5

Specifications are subject to change without notice.

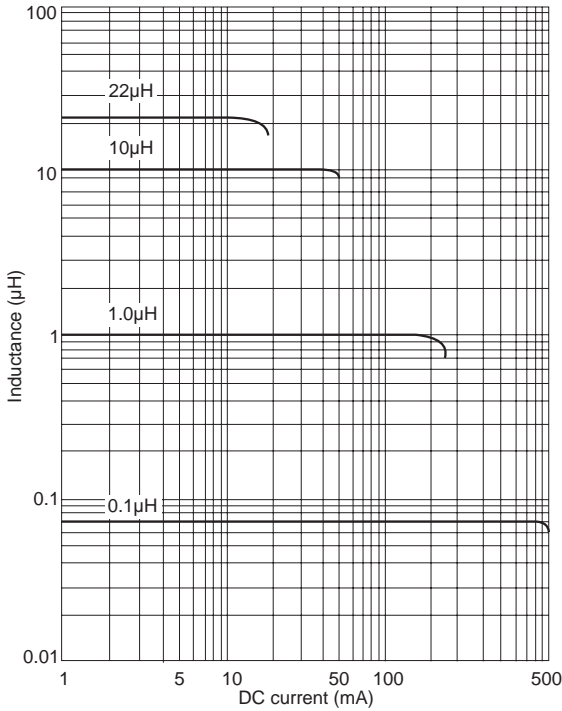


Multilayer Chip Inductors

ML0805 Series • Performance Curves

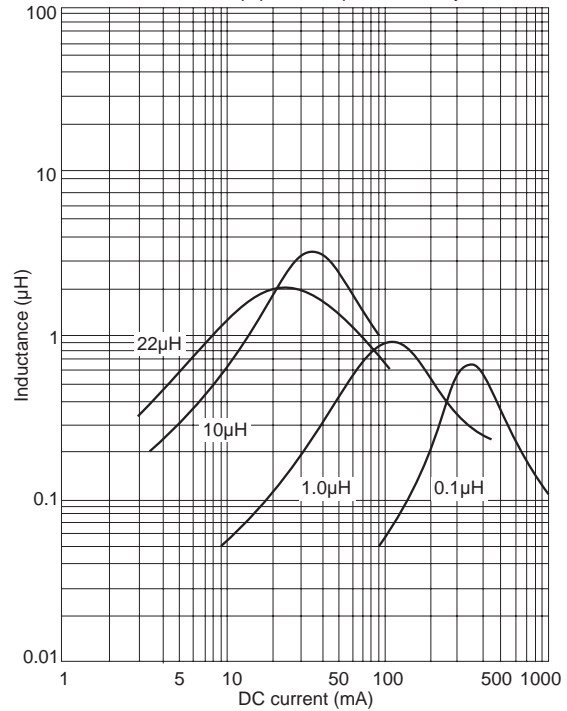
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

Test equipment: LCR meter 4291A



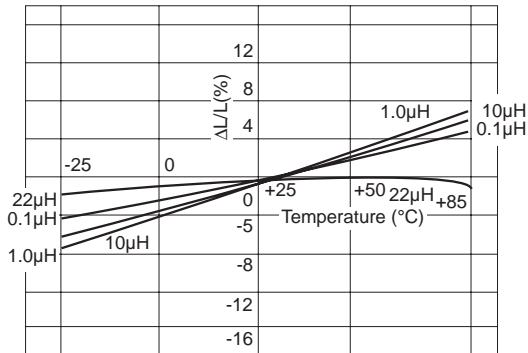
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

Test equipment: Impedance analyzer 4291A



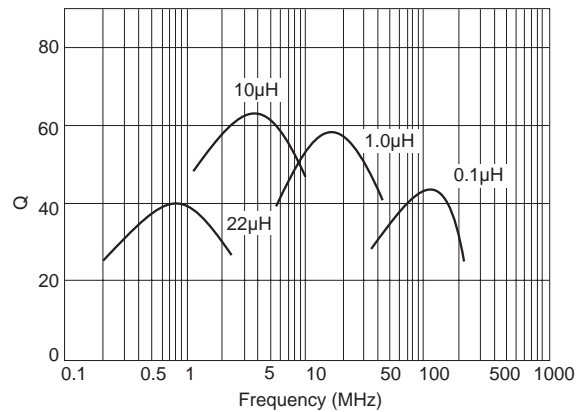
INDUCTANCE vs. TEMPERATURE CHARACTERISTICS

Test equipment: LCR meter 4291A



Q vs. FREQUENCY CHARACTERISTICS

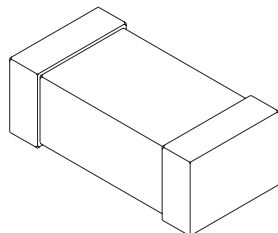
Test equipment: Impedance analyzer 4291A





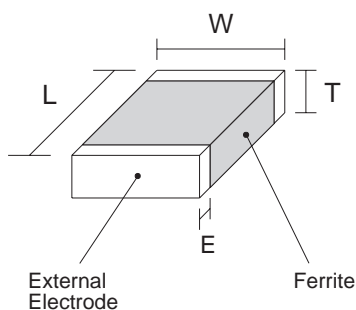
Multilayer Chip Inductors

ML1206 Series



General Specifications

Inductance Range: 0.047 uH to 33 uH
 Storage Temp: -40°C to + 85°C
 Operating Temp: -20°C to + 85°C
 Resistance to Solder Heat: 260°C, 10 Seconds
 Resistance to Solvent: Per MIL-STD-202F



Dimensions

Size Code	L	W	T	E
ML1206	.126"±.008	.064"±.008	.043"±.008	.024"±.008

ML1206 Series

Part No.	Inductance (uH)	Inductance Tolerance	Q Min.	Test Freq. L, Q (MHz)	Self-resonant Frequency (MHz) Min.	DC Resistance (Ω) Max.	Rated Current (mA) Max.
ML1206-47N	0.047	±20%	20	50	320	0.15	300
ML1206-68N	0.068	±20%	20	50	280	0.25	300
ML1206-R10	0.10	±20%, ±10%	20	25	235	0.25	250
ML1206-R12	0.12	±20%, ±10%	20	25	220	0.3	250
ML1206-R15	0.15	±20%, ±10%	20	25	200	0.3	250
ML1206-R18	0.18	±20%, ±10%	20	25	185	0.4	250
ML1206-R22	0.22	±20%, ±10%	20	25	170	0.4	250
ML1206-R27	0.27	±20%, ±10%	20	25	150	0.5	250
ML1206-R33	0.33	±20%, ±10%	20	25	145	0.6	250
ML1206-R39	0.39	±20%, ±10%	20	25	135	0.5	200
ML1206-R47	0.47	±20%, ±10%	20	25	125	0.6	200
ML1206-R56	0.56	±20%, ±10%	20	25	115	0.7	150
ML1206-R68	0.68	±20%, ±10%	20	25	105	0.8	150
ML1206-R82	0.82	±20%, ±10%	20	25	100	0.9	150
ML1206-1R0	1.0	±20%, ±10%	45	10	75	0.4	100
ML1206-1R2	1.2	±20%, ±10%	45	10	65	0.5	100
ML1206-1R5	1.5	±20%, ±10%	45	10	60	0.5	50
ML1206-1R8	1.8	±20%, ±10%	45	10	55	0.5	50
ML1206-2R2	2.2	±20%, ±10%	45	10	50	0.6	50
ML1206-2R7	2.7	±20%, ±10%	45	10	45	0.6	50
ML1206-3R3	3.3	±20%, ±10%	45	10	41	0.6	50
ML1206-3R9	3.9	±20%, ±10%	45	10	38	0.6	50
ML1206-4R7	4.7	±20%, ±10%	45	10	35	0.6	50
ML1206-5R6	5.6	±20%, ±10%	50	4	32	0.6	25
ML1206-6R8	6.8	±20%, ±10%	50	4	29	0.6	25
ML1206-8R2	8.2	±20%, ±10%	50	4	26	0.6	25
ML1206-100	10	±20%, ±10%	50	2	24	0.6	25
ML1206-120	12	±20%, ±10%	50	2	22	0.6	15
ML1206-150	15	±20%, ±10%	35	1	19	0.6	5
ML1026-180	18	±20%, ±10%	35	1	18	0.6	5
ML1206-220	22	±20%, ±10%	35	1	16	0.6	5
ML1206-270	27	±20%, ±10%	35	1	14	0.9	5
ML1206-330	33	±20%, ±10%	35	0.4	13	1.05	5

Specifications are subject to change without notice.

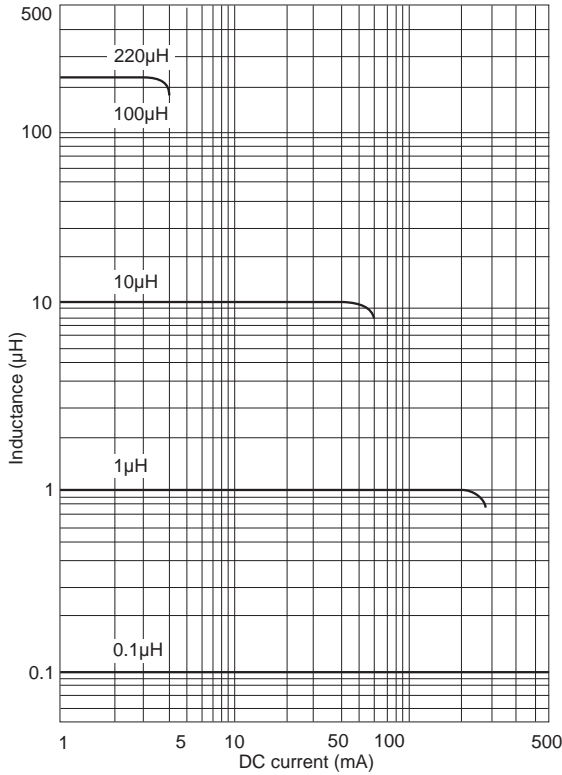


Multilayer Chip Inductors

ML1206 Series • Performance Curves

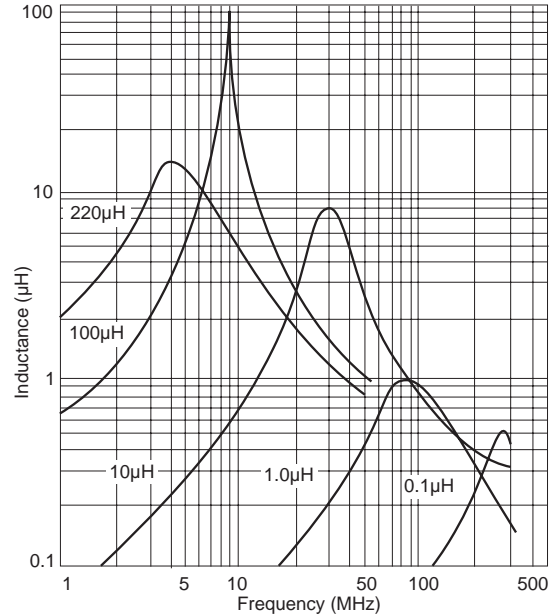
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS

Test equipment: LCR meter 4291A



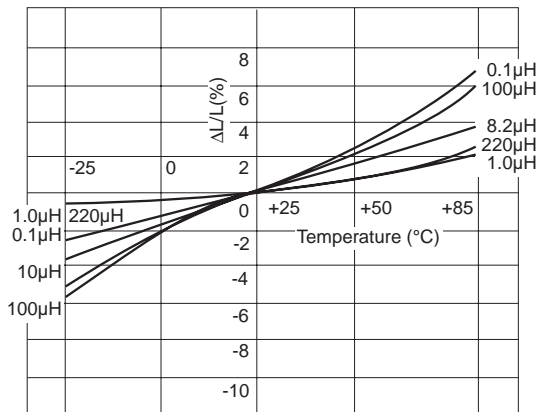
IMPEDANCE vs. FREQUENCY CHARACTERISTICS

Test equipment: Impedance analyzer 4291A



INDUCTANCE vs. TEMPERATURE CHARACTERISTICS

Test equipment: LCR meter 4291A



Q vs. FREQUENCY CHARACTERISTICS

Test equipment: Impedance analyzer 4291A

