

Multilayer Chip Ferrite Inductor –MFL Series

Operating Temp. : -40°C ~ +85°C



FEATURES

- Monolithic structure for high reliability
- Compact size inductor possible
- No cross coupling due to magnetic shield
- Perfect shape for mounting with no directionality
- Excellent solderability and high heat resistance for reflow soldering or wave soldering

APPLICATIONS

- Widely use in Communications, Video and audio equipment, Computer, Remote control, etc.

PRODUCT IDENTIFICATION

MFL

①

2012

②

1R0

③

K

④

①

Type	
MFL	Chip Ferrite Inductor

②

External Dimensions (LxW) (mm)	
1005 [0402]	1.0x0.5
1608 [0603]	1.6x0.8
2012 [0805]	2.0x1.25
3216 [1206]	3.2x1.6

④

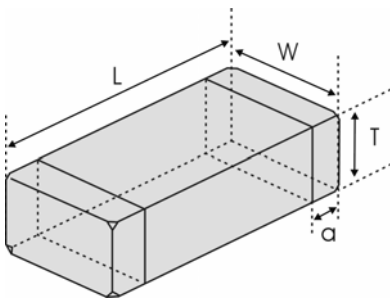
Nominal Inductance	
Example	Nominal Value
47N	0.047μH
R10	0.1μH
1R0	1.0μH
※R=Decimal Point, N=nH	

④

Inductance Tolerance	
K	±10%
M	±20%

SHAPE AND DIMENSIONS

Unit: mm [inch]



Type	L	W	T	a
MFL1005 [0402]	1.0±0.15 [.039±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]
MFL1608 [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]
MFL2012 [0805]	2.0 (+0.3, -0.1) [.079 (+.012, -.004)]	1.25±0.2 [.049±.008]	0.85±0.2 [.033±.008]	0.5±0.3 [.020±.012]
			1.25±0.2 [.049±.008]	
MFL3216 [1206]	3.2±0.2 [.126±.008]	1.6±0.2 [.063±.008]	0.85±0.2 [.033±.008]	0.5±0.3 [.020±.012]
			1.1±0.2 [.043±.008]	



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Multilayer Chip Ferrite Inductor 叠层片式铁氧体电感

Electrical Characteristics 电气性能

MFL 1005 (0402) Series

Part No.	L (uH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	Ir(mA) /max
MFL100547N□	0.047	10	50	220	0.45	25
MFL100556N□	0.056	10	50	220	0.45	25
MFL100568N□	0.068	10	50	210	0.45	25
MFL100582N□	0.082	10	50	200	0.45	25
MFL1005R10□	0.10	15	25	200	0.70	25
MFL1005R12□	0.12	15	25	165	0.70	25
MFL1005R15□	0.15	15	25	140	0.90	25
MFL1005R18□	0.18	15	25	120	1.10	25
MFL1005R22□	0.22	15	25	110	1.20	25
MFL1005R27□	0.27	15	25	95	1.20	25
MFL1005R33□	0.33	15	25	85	1.25	18
MFL1005R39□	0.39	15	25	70	1.50	18
MFL1005R47□	0.47	20	25	68	2.00	18
MFL1005R56□	0.56	20	25	55	2.35	18
MFL1005R68□	0.68	20	25	50	2.55	18
MFL1005R82□	0.82	20	25	45	3.15	18
MFL10051R0□	1.0	20	10	40	0.90	15
MFL10051R2□	1.2	20	10	35	1.20	15
MFL10051R5□	1.5	20	10	30	1.20	15
MFL10051R8□	1.8	20	10	30	1.45	15
MFL10052R2□	2.2	20	10	28	1.75	10
MFL10052R7□	2.7	20	10	22	2.00	10
MFL10053R3□	3.3	20	10	20	2.35	10
MFL10053R9□	3.9	20	10	18	2.55	10
MFL10054R7□	4.7	20	10	15	3.15	10
MFL10055R6□	5.6	20	4	13	2.35	3
MFL10056R8□	6.8	20	4	11	2.55	3
MFL10058R2□	8.2	20	4	10	3.15	3
MFL1005100□	10.0	20	2	9	3.45	2



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Multilayer Chip Ferrite Inductor 叠层片式铁氧体电感

MFL 1608 (0603) Series

Part No.	L (uH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	Ir(mA) /max
MFL160847N□	0.047	15	50	600	0.20	50
MFL160856N□	0.056	15	50	550	0.30	50
MFL160868N□	0.068	15	50	500	0.30	50
MFL160882N□	0.082	15	50	450	0.30	50
MFL1608R10□	0.10	15	25	400	0.50	50
MFL1608R12□	0.12	15	25	350	0.50	50
MFL1608R15□	0.15	15	25	300	0.60	50
MFL1608R18□	0.18	15	25	280	0.60	50
MFL1608R22□	0.22	15	25	260	0.80	50
MFL1608R27□	0.27	15	25	255	0.80	50
MFL1608R33□	0.33	15	25	250	0.85	35
MFL1608R39□	0.39	15	25	245	1.00	35
MFL1608R47□	0.47	15	25	240	1.35	35
MFL1608R56□	0.56	15	25	205	1.55	35
MFL1608R68□	0.68	15	25	180	1.70	35
MFL1608R82□	0.82	15	25	165	2.10	35
MFL16081R0□	1.0	35	10	125	0.60	25
MFL16081R2□	1.2	35	10	110	0.80	25
MFL16081R5□	1.5	35	10	105	0.80	25
MFL16081R8□	1.8	35	10	95	0.95	25
MFL16082R2□	2.2	35	10	90	1.15	15
MFL16082R7□	2.7	35	10	80	1.35	15
MFL16083R3□	3.3	35	10	70	1.55	15
MFL16083R9□	3.9	35	10	60	1.70	15
MFL16084R7□	4.7	35	10	50	2.10	15
MFL16085R6□	5.6	35	4	45	1.55	5
MFL16086R8□	6.8	35	4	40	1.70	5
MFL16088R2□	8.2	35	4	35	2.10	4
MFL1608100□	10.0	35	2	33	2.55	3
MFL1608120□	12.0	35	2	22	2.75	3
MFL1608150□	15.0	20	1	20	1.70	1
MFL1608180□	18.0	20	1	18	1.85	1
MFL1608220□	22.0	20	1	15	2.10	1
MFL1608270□	27.0	20	1	12	2.75	1
MFL1608330□	33.0	20	1	10	2.95	1



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Multilayer Chip Ferrite Inductor 叠层片式铁氧体电感

MFL 2012 (0805) Series

Part No.	L (uH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	Ir(mA) /max
MFL201247N□	0.047	15	50	350	0.20	300
MFL201256N□	0.056	15	50	350	0.20	300
MFL201268N□	0.068	15	50	280	0.20	300
MFL201282N□	0.082	15	50	255	0.20	300
MFL2012R10□	0.10	20	25	235	0.30	250
MFL2012R12□	0.12	20	25	220	0.30	250
MFL2012R15□	0.15	20	25	200	0.40	250
MFL2012R18□	0.18	20	25	185	0.40	250
MFL2012R22□	0.22	20	25	170	0.50	250
MFL2012R27□	0.27	20	25	150	0.50	250
MFL2012R33□	0.33	20	25	145	0.55	250
MFL2012R39□	0.39	25	25	135	0.65	200
MFL2012R47□	0.47	25	25	125	0.65	200
MFL2012R56□	0.56	25	25	115	0.75	150
MFL2012R68□	0.68	25	25	105	0.80	150
MFL2012R82□	0.82	25	25	100	1.00	150
MFL20121R0□	1.0	45	10	75	0.40	50
MFL20121R2□	1.2	45	10	65	0.50	50
MFL20121R5□	1.5	45	10	60	0.50	50
MFL20121R8□	1.8	45	10	55	0.60	50
MFL20122R2□	2.2	45	10	50	0.65	30
MFL20122R7□	2.7	45	10	45	0.75	30
MFL20123R3□	3.3	45	10	41	0.80	30
MFL20123R9□	3.9	50	10	38	0.90	30
MFL20124R7□	4.7	50	10	35	1.00	30
MFL20125R6□	5.6	50	4	32	0.90	15
MFL20126R8□	6.8	50	4	29	1.00	15
MFL20128R2□	8.2	50	4	26	1.10	15
MFL2012100□	10.0	50	2	24	1.15	15
MFL2012120□	12.0	50	2	22	1.25	15
MFL2012150□	15.0	30	1	19	0.80	5
MFL2012180□	18.0	30	1	18	0.90	5
MFL2012220□	22.0	30	1	16	1.10	5
MFL2012270□	27.0	25	1	14	1.15	5
MFL2012330□	33.0	25	1	13	1.25	5
MFL2012390□	39.0	25	1	13	1.50	4
MFL2012470□	47.0	25	1	12	1.80	4
MFL2012560□	56.0	25	1	11	2.20	4
MFL2012680□	68.0	25	1	10	2.20	2
MFL2012820□	82.0	25	1	9	2.50	2
MFL2012101□	100	25	1	8	2.50	2



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Multilayer Chip Ferrite Inductor 叠层片式铁氧体电感

MFL 3216 (1206) Series

Part No.	L (uH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	I _r (mA) /max
MFL321647N□	0.047	30	50	400	0.15	300
MFL321656N□	0.056	30	50	380	0.15	300
MFL321668N□	0.068	30	50	330	0.25	300
MFL321682N□	0.082	30	50	310	0.25	300
MFL3216R10□	0.10	30	25	280	0.25	250
MFL3216R12□	0.12	30	25	260	0.25	250
MFL3216R15□	0.15	30	25	240	0.25	250
MFL3216R18□	0.18	30	25	220	0.30	250
MFL3216R22□	0.22	30	25	200	0.35	250
MFL3216R27□	0.27	30	25	180	0.40	250
MFL3216R33□	0.33	35	25	170	0.40	250
MFL3216R39□	0.39	35	25	160	0.45	200
MFL3216R47□	0.47	35	25	140	0.50	200
MFL3216R56□	0.56	35	25	130	0.55	150
MFL3216R68□	0.68	35	25	120	0.65	150
MFL3216R82□	0.82	35	25	110	0.75	150
MFL32161R0□	1.0	50	10	90	0.40	100
MFL32161R2□	1.2	50	10	80	0.40	100
MFL32161R5□	1.5	50	10	70	0.45	50
MFL32161R8□	1.8	50	10	66	0.50	50
MFL32162R2□	2.2	50	10	58	0.55	50
MFL32162R7□	2.7	50	10	53	0.55	50
MFL32163R3□	3.3	50	10	49	0.60	50
MFL32163R9□	3.9	50	10	48	0.70	50
MFL32164R7□	4.7	50	10	41	0.70	50
MFL32165R6□	5.6	55	4	38	0.75	25
MFL32166R8□	6.8	55	4	34	0.75	25
MFL32168R2□	8.2	55	4	31	0.80	25
MFL3216100□	10.0	55	2	28	0.80	25
MFL3216120□	12.0	55	2	26	0.90	15
MFL3216150□	15.0	40	1	23	0.80	5
MFL3216180□	18.0	40	1	21	0.80	5
MFL3216220□	22.0	40	1	19	0.90	5
MFL3216270□	27.0	40	1	17	0.90	5
MFL3216330□	33.0	40	1	16	1.05	5
MFL3216390□	39.0	40	1	12.5	2.00	5
MFL3216470□	47.0	40	1	11.5	2.00	5
MFL3216560□	56.0	40	1	10.5	2.50	4
MFL3216680□	68.0	40	1	10.5	2.50	4
MFL3216820□	82.0	40	1	10.0	3.00	4
MFL3216101□	100	30	1	9.0	3.00	4
MFL3216121□	120	30	1	7.0	3.50	2
MFL3216151□	150	30	1	6.5	3.80	2
MFL3216181□	180	30	1	6.0	4.00	2
MFL3216221□	220	30	1	5.5	4.00	2

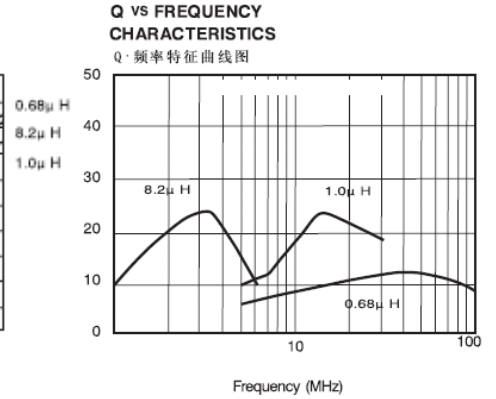
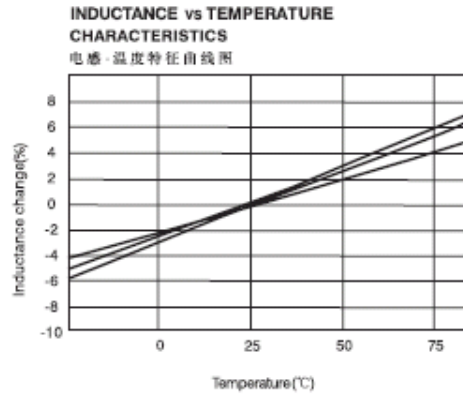
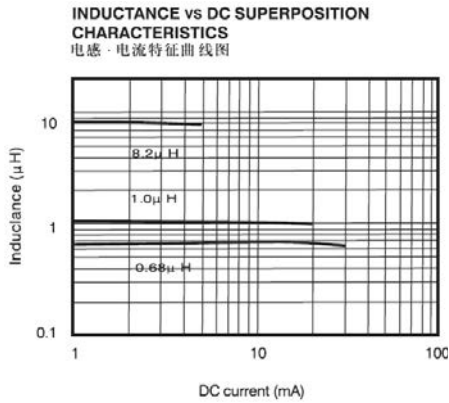


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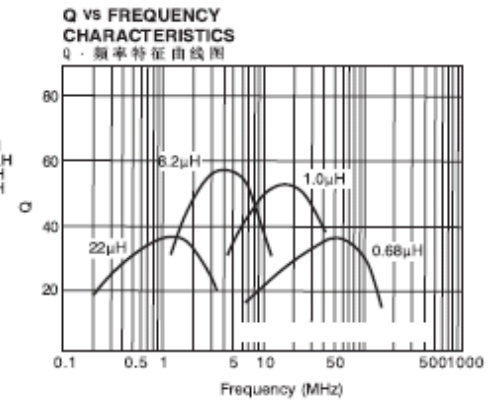
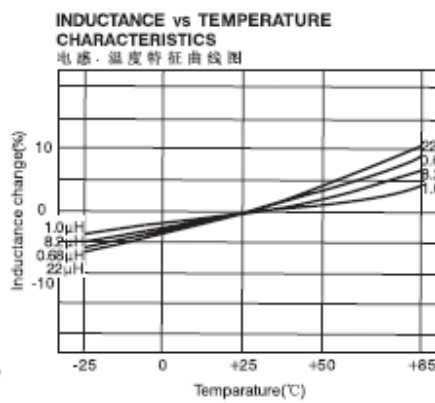
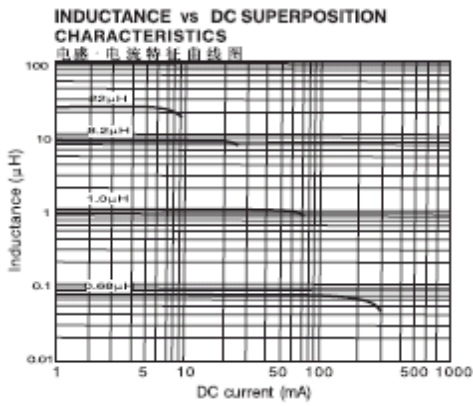
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Characteristic curve 特性曲线

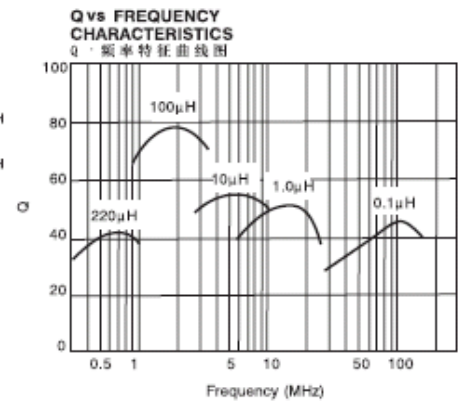
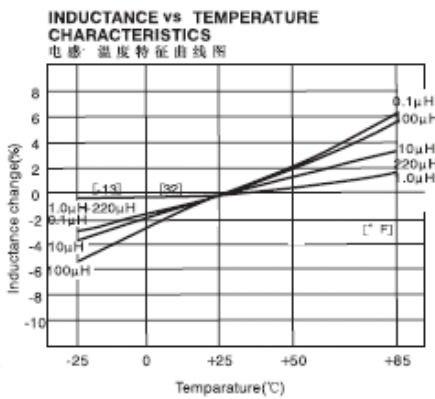
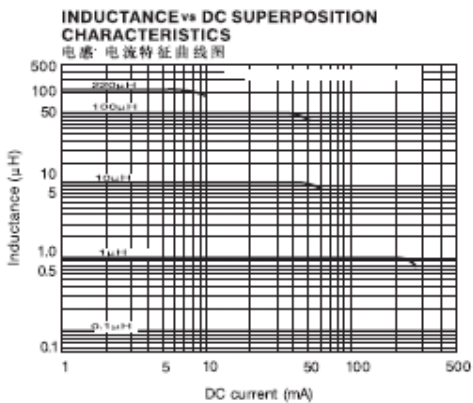
MFL 1005 (0402) Series



MFL 1608 (0603) Series



MFL 2012 (0805) Series

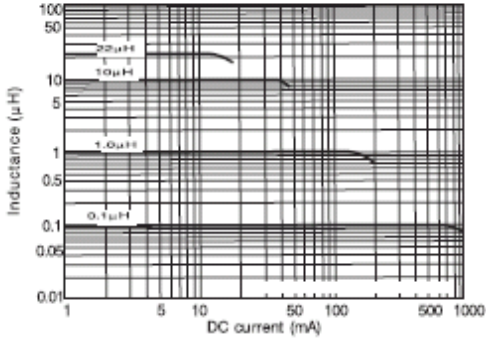


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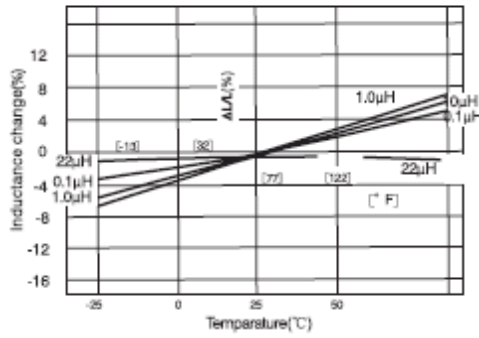
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MFL 3216 (1206) Series

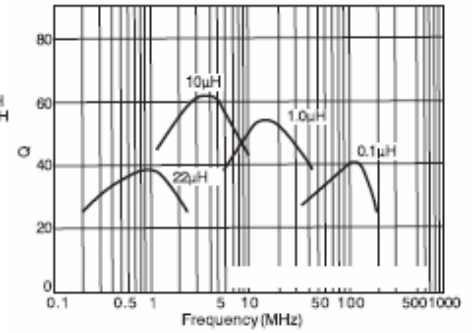
INDUCTANCE vs DC SUPERPOSITION CHARACTERISTICS
电感·电流特征曲线图



INDUCTANCE VS. TEMPERATURE CHARACTERISTICS
电感·温度特征曲线图



Q VS FREQUENCY CHARACTERISTICS
Q·频率特征曲线图



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