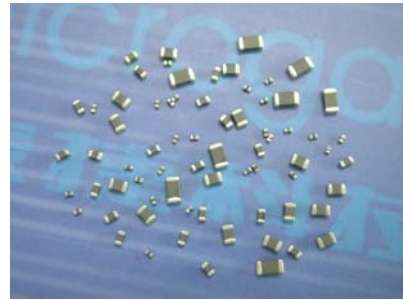


Multilayer Chip Ferrite Inductor 叠层片式铁氧体电感

FEATURES 特点

- Compact size and light weight 尺寸小, 重量轻
- Excellent solderability and heat resistance for either flow or reflow soldering 良好的可焊性和耐焊性
- No cross coupling between inductors due to magnetic shield 良好的磁屏蔽抗干扰性



APPLICATIONS 应用

- Resonance circuit, traps, filter circuits 应用于谐振电路、陷波及滤波电路
- RF choke in telecommunications equipment, cordless phones, radio equipment 电信、广播设备中的高频扼流

Product Identification 产品标识

MGFI 2012 A 47N K I - LF
① ② ③ ④ ⑤ ⑥ ⑦

① Series name 系列名称

② Dimension 产品尺寸 L×W: 【2012: 2.0mm×1.2mm】

③ Material code 材料代码

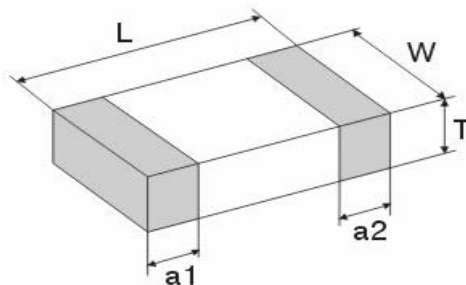
④ Inductance 电感量: 【47N=0.047 uH R10=0.1 uH 2R7=2.7uH 150=15 uH】

⑤ Tolerance of Inductance 电感量公差: 【 J: ±5% K: ±10% M: ±20%】

⑥ Packing Style: 【 T: Taping 编带盘装 B: Bulk 散装】

⑦ Lead free products 无铅产品

Shapes And Dimensions 外形及尺寸示意图



Type 型号	Dimensions (mm) [inch]			
	L长	W宽	T高	a1, a2
1005 [0402]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
1608 [0603]	1.60±0.15 [0.063±0.006]	0.80±0.15 [0.031±0.006]	0.80±0.15 [0.031±0.006]	0.30±0.20 [0.012±0.008]
2012 [0805]	2.00±0.20 [0.079±0.008]	1.25±0.20 [0.049±0.008]	0.85±0.20 [0.033±0.008] 1.25±0.20 [0.049±0.008]	0.50±0.30 [0.02±0.012]
3216 [1206]	3.20±0.20 [0.126±0.008]	1.60±0.20 [0.063±0.008]	1.10±0.30 [0.043±0.012]	0.50±0.30 [0.02±0.012]

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

Electrical Characteristics 电气性能

MGFI 1005 (0402) Series

Part No.	L (uH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	I _r (mA) /max
MGFI1005A47N□	0.047	10	50	220	0.45	25
MGFI1005A56N□	0.056	10	50	220	0.45	25
MGFI1005A68N□	0.068	10	50	210	0.45	25
MGFI1005A82N□	0.082	10	50	200	0.45	25
MGFI1005AR10□	0.10	15	25	200	0.70	25
MGFI1005AR12□	0.12	15	25	165	0.70	25
MGFI1005AR15□	0.15	15	25	140	0.90	25
MGFI1005AR18□	0.18	15	25	120	1.10	25
MGFI1005AR22□	0.22	15	25	110	1.20	25
MGFI1005AR27□	0.27	15	25	95	1.20	25
MGFI1005AR33□	0.33	15	25	85	1.25	18
MGFI1005AR39□	0.39	15	25	70	1.50	18
MGFI1005AR47□	0.47	20	25	68	2.00	18
MGFI1005AR56□	0.56	20	25	55	2.35	18
MGFI1005AR68□	0.68	20	25	50	2.55	18
MGFI1005AR82□	0.82	20	25	45	3.15	18
MGFI1005C1R0□	1.0	20	10	40	0.90	15
MGFI1005C1R2□	1.2	20	10	35	1.20	15
MGFI1005C1R5□	1.5	20	10	30	1.20	15
MGFI1005C1R8□	1.8	20	10	30	1.45	15
MGFI1005C2R2□	2.2	20	10	28	1.75	10
MGFI1005C2R7□	2.7	20	10	22	2.00	10
MGFI1005C3R3□	3.3	20	10	20	2.35	10
MGFI1005C3R9□	3.9	20	10	18	2.55	10
MGFI1005C4R7□	4.7	20	10	15	3.15	10
MGFI1005D5R6□	5.6	20	4	13	2.35	3
MGFI1005D6R8□	6.8	20	4	11	2.55	3
MGFI1005D8R2□	8.2	20	4	10	3.15	3
MGFI1005D100□	10.0	20	2	9	3.45	2

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

MGFI 1608 (0603) Series

Part No.	L (uH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	Ir(mA) /max
MGFI1608A47N□	0.047	15	50	600	0.20	50
MGFI1608A56N□	0.056	15	50	550	0.30	50
MGFI1608A68N□	0.068	15	50	500	0.30	50
MGFI1608A82N□	0.082	15	50	450	0.30	50
MGFI1608AR10□	0.10	15	25	400	0.50	50
MGFI1608AR12□	0.12	15	25	350	0.50	50
MGFI1608AR15□	0.15	15	25	300	0.60	50
MGFI1608AR18□	0.18	15	25	280	0.60	50
MGFI1608AR22□	0.22	15	25	260	0.80	50
MGFI1608AR27□	0.27	15	25	255	0.80	50
MGFI1608AR33□	0.33	15	25	250	0.85	35
MGFI1608AR39□	0.39	15	25	245	1.00	35
MGFI1608AR47□	0.47	15	25	240	1.35	35
MGFI1608AR56□	0.56	15	25	205	1.55	35
MGFI1608AR68□	0.68	15	25	180	1.70	35
MGFI1608AR82□	0.82	15	25	165	2.10	35
MGFI1608C1R0□	1.0	35	10	125	0.60	25
MGFI1608C1R2□	1.2	35	10	110	0.80	25
MGFI1608C1R5□	1.5	35	10	105	0.80	25
MGFI1608C1R8□	1.8	35	10	95	0.95	25
MGFI1608C2R2□	2.2	35	10	90	1.15	15
MGFI1608C2R7□	2.7	35	10	80	1.35	15
MGFI1608C3R3□	3.3	35	10	70	1.55	15
MGFI1608C3R9□	3.9	35	10	60	1.70	15
MGFI1608C4R7□	4.7	35	10	50	2.10	15
MGFI1608D5R6□	5.6	35	4	45	1.55	5
MGFI1608D6R8□	6.8	35	4	40	1.70	5
MGFI1608D8R2□	8.2	35	4	35	2.10	4
MGFI1608D100□	10.0	35	2	33	2.55	3
MGFI1608D120□	12.0	35	2	22	2.75	3
MGFI1608E150□	15.0	20	1	20	1.70	1
MGFI1608E180□	18.0	20	1	18	1.85	1
MGFI1608E220□	22.0	20	1	15	2.10	1
MGFI1608E270□	27.0	20	1	12	2.75	1
MGFI1608E330□	33.0	20	1	10	2.95	1

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

MGFI 2012 (0805) Series

Part No.	L (uH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	I _r (mA) /max
MGFI2012A47N□	0.047	15	50	350	0.20	300
MGFI2012A56N□	0.056	15	50	350	0.20	300
MGFI2012A68N□	0.068	15	50	280	0.20	300
MGFI2012A82N□	0.082	15	50	255	0.20	300
MGFI2012AR10□	0.10	20	25	235	0.30	250
MGFI2012AR12□	0.12	20	25	220	0.30	250
MGFI2012AR15□	0.15	20	25	200	0.40	250
MGFI2012AR18□	0.18	20	25	185	0.40	250
MGFI2012AR22□	0.22	20	25	170	0.50	250
MGFI2012AR27□	0.27	20	25	150	0.50	250
MGFI2012AR33□	0.33	20	25	145	0.55	250
MGFI2012AR39□	0.39	25	25	135	0.65	200
MGFI2012AR47□	0.47	25	25	125	0.65	200
MGFI2012AR56□	0.56	25	25	115	0.75	150
MGFI2012AR68□	0.68	25	25	105	0.80	150
MGFI2012AR82□	0.82	25	25	100	1.00	150
MGFI2012C1R0□	1.0	45	10	75	0.40	50
MGFI2012C1R2□	1.2	45	10	65	0.50	50
MGFI2012C1R5□	1.5	45	10	60	0.50	50
MGFI2012C1R8□	1.8	45	10	55	0.60	50
MGFI2012C2R2□	2.2	45	10	50	0.65	30
MGFI2012C2R7□	2.7	45	10	45	0.75	30
MGFI2012C3R3□	3.3	45	10	41	0.80	30
MGFI2012C3R9□	3.9	50	10	38	0.90	30
MGFI2012C4R7□	4.7	50	10	35	1.00	30
MGFI2012D5R6□	5.6	50	4	32	0.90	15
MGFI2012D6R8□	6.8	50	4	29	1.00	15
MGFI2012D8R2□	8.2	50	4	26	1.10	15
MGFI2012D100□	10.0	50	2	24	1.15	15
MGFI2012D120□	12.0	50	2	22	1.25	15
MGFI2012E150□	15.0	30	1	19	0.80	5
MGFI2012E180□	18.0	30	1	18	0.90	5
MGFI2012E220□	22.0	30	1	16	1.10	5
MGFI2012E270□	27.0	25	1	14	1.15	5
MGFI2012E330□	33.0	25	1	13	1.25	5
MGFI2012E390□	39.0	25	1	13	1.50	4
MGFI2012E470□	47.0	25	1	12	1.80	4
MGFI2012E560□	56.0	25	1	11	2.20	4
MGFI2012E680□	68.0	25	1	10	2.20	2
MGFI2012E820□	82.0	25	1	9	2.50	2
MGFI2012E101□	100	25	1	8	2.50	2

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

MGFI 1608 (0603)\2012(0805) Q Series

Part No.	L (uH) at 10MHz	Q /min at 10MHz	Q /min at 30MHz	SRF(MHz) /min	RDC(Ω) /max	Ir(mA) /max
MGFI1608Q1R0□	1.0	30	40	75	0.60	25
MGFI1608Q1R2□	1.2	30	40	65	0.65	25
MGFI1608Q1R5□	1.5	30	40	60	0.70	25
MGFI1608Q1R8□	1.8	30	40	55	0.80	25
MGFI1608Q2R2□	2.2	30	40	50	0.90	15
MGFI1608Q2R7□	2.7	30	40	45	1.00	15
MGFI1608Q3R3□	3.3	30	40	40	1.10	15
MGFI1608Q3R9□	3.9	30	40	35	1.15	15
MGFI2012Q1R0□	1.0	35	45	75	0.55	50
MGFI2012Q1R2□	1.2	35	45	65	0.60	50
MGFI2012Q1R5□	1.5	35	45	60	0.65	50
MGFI2012Q1R8□	1.8	35	45	55	0.75	50
MGFI2012Q2R2□	2.2	35	45	50	0.80	30
MGFI2012Q2R7□	2.7	35	45	45	0.90	30
MGFI2012Q3R3□	3.3	35	45	41	1.00	30
MGFI2012Q3R9□	3.9	35	45	38	1.10	30
MGFI2012Q4R7□	4.7	35	45	35	1.15	30

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

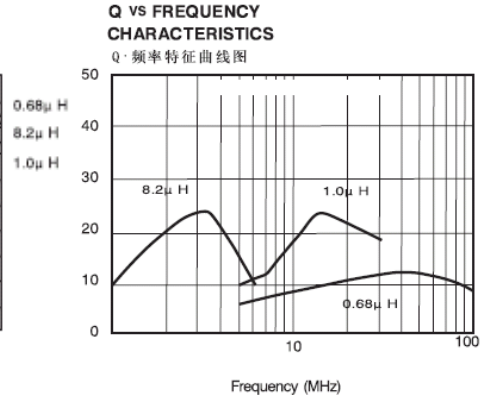
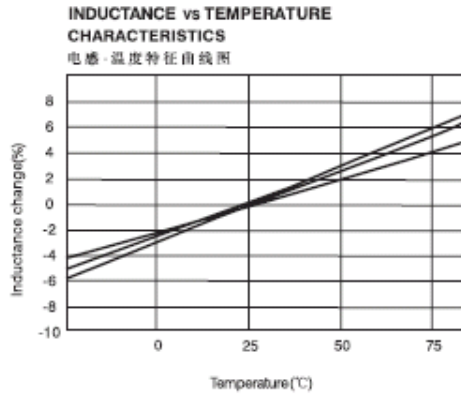
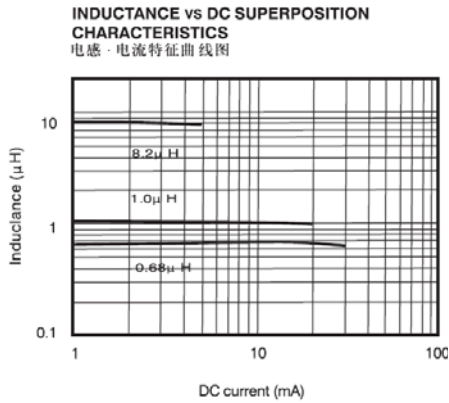
MGFI 3216 (1206) Series

Part No.	L (uH)	Q /min	L,Q Test Freq. (MHz)	SRF(MHz) /min	RDC(Ω) /max	I _r (mA) /max
MGFI3216A47N□	0.047	30	50	400	0.15	300
MGFI3216A56N□	0.056	30	50	380	0.15	300
MGFI3216A68N□	0.068	30	50	330	0.25	300
MGFI3216A82N□	0.082	30	50	310	0.25	300
MGFI3216AR10□	0.10	30	25	280	0.25	250
MGFI3216AR12□	0.12	30	25	260	0.25	250
MGFI3216AR15□	0.15	30	25	240	0.25	250
MGFI3216AR18□	0.18	30	25	220	0.30	250
MGFI3216AR22□	0.22	30	25	200	0.35	250
MGFI3216AR27□	0.27	30	25	180	0.40	250
MGFI3216AR33□	0.33	35	25	170	0.40	250
MGFI3216AR39□	0.39	35	25	160	0.45	200
MGFI3216AR47□	0.47	35	25	140	0.50	200
MGFI3216AR56□	0.56	35	25	130	0.55	150
MGFI3216AR68□	0.68	35	25	120	0.65	150
MGFI3216AR82□	0.82	35	25	110	0.75	150
MGFI3216C1R0□	1.0	50	10	90	0.40	100
MGFI3216C1R2□	1.2	50	10	80	0.40	100
MGFI3216C1R5□	1.5	50	10	70	0.45	50
MGFI3216C1R8□	1.8	50	10	66	0.50	50
MGFI3216C2R2□	2.2	50	10	58	0.55	50
MGFI3216C2R7□	2.7	50	10	53	0.55	50
MGFI3216C3R3□	3.3	50	10	49	0.60	50
MGFI3216C3R9□	3.9	50	10	48	0.70	50
MGFI3216C4R7□	4.7	50	10	41	0.70	50
MGFI3216D5R6□	5.6	55	4	38	0.75	25
MGFI3216D6R8□	6.8	55	4	34	0.75	25
MGFI3216D8R2□	8.2	55	4	31	0.80	25
MGFI3216D100□	10.0	55	2	28	0.80	25
MGFI3216D120□	12.0	55	2	26	0.90	15
MGFI3216E150□	15.0	40	1	23	0.80	5
MGFI3216E180□	18.0	40	1	21	0.80	5
MGFI3216E220□	22.0	40	1	19	0.90	5
MGFI3216E270□	27.0	40	1	17	0.90	5
MGFI3216E330□	33.0	40	1	16	1.05	5
MGFI3216E390□	39.0	40	1	12.5	2.00	5
MGFI3216E470□	47.0	40	1	11.5	2.00	5
MGFI3216E560□	56.0	40	1	10.5	2.50	4
MGFI3216E680□	68.0	40	1	10.5	2.50	4
MGFI3216E820□	82.0	40	1	10.0	3.00	4
MGFI3216E101□	100	30	1	9.0	3.00	4
MGFI3216E121□	120	30	1	7.0	3.50	2
MGFI3216E151□	150	30	1	6.5	3.80	2
MGFI3216E181□	180	30	1	6.0	4.00	2
MGFI3216E221□	220	30	1	5.5	4.00	2

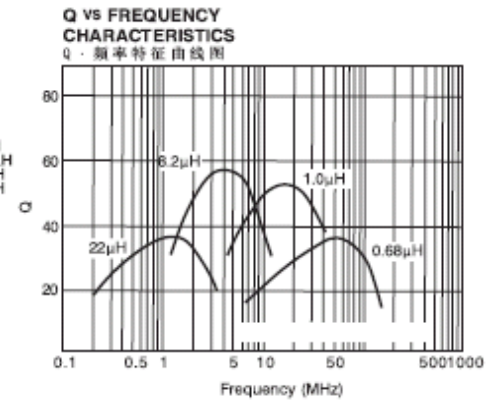
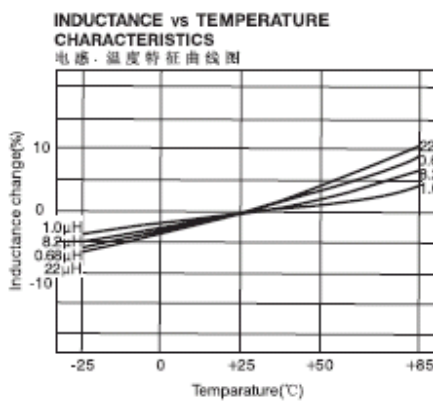
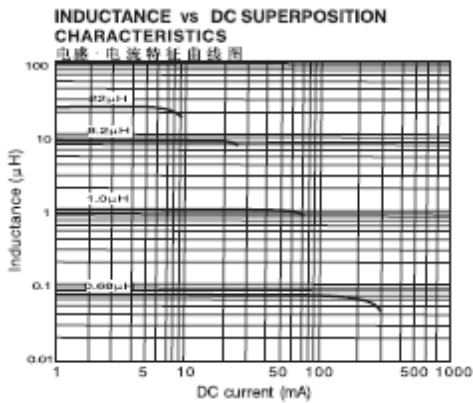
Multilayer Chip Ferrite Inductor 叠层片式铁氧体电感

Characteristic curve 特性曲线

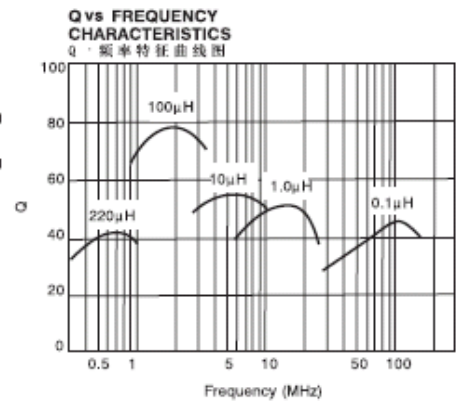
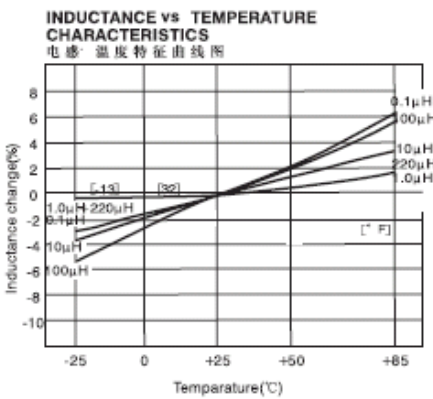
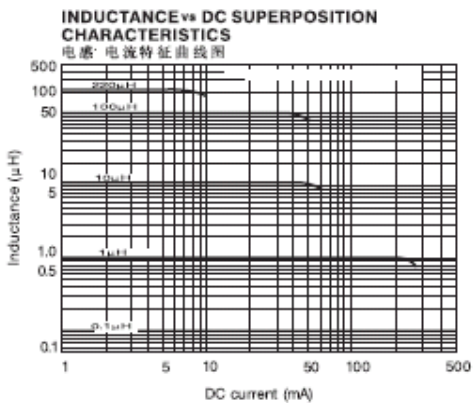
MGFI 1005 (0402) Series



MGFI 1608 (0603) Series

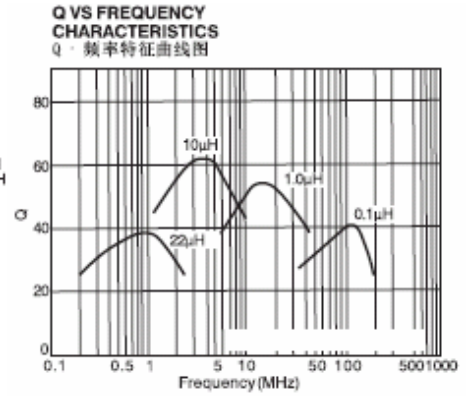
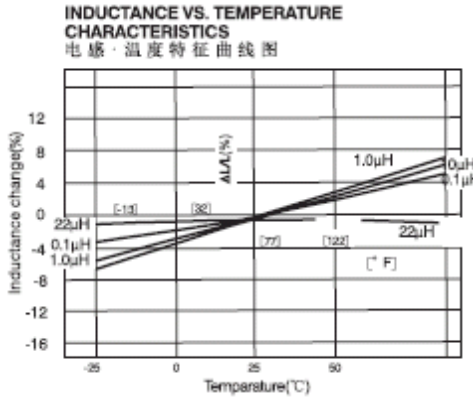
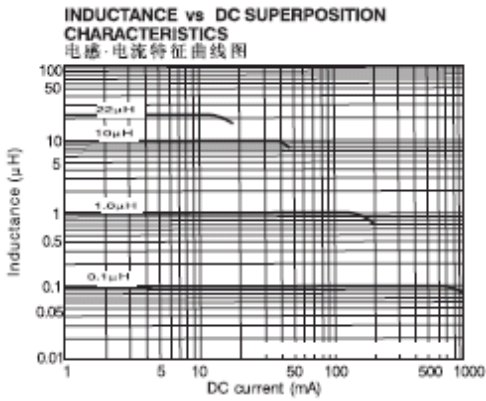


MGFI 2012 (0805) Series

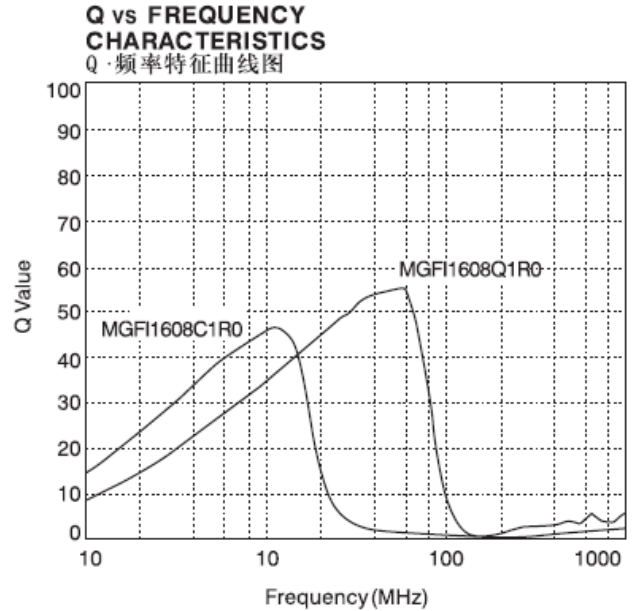
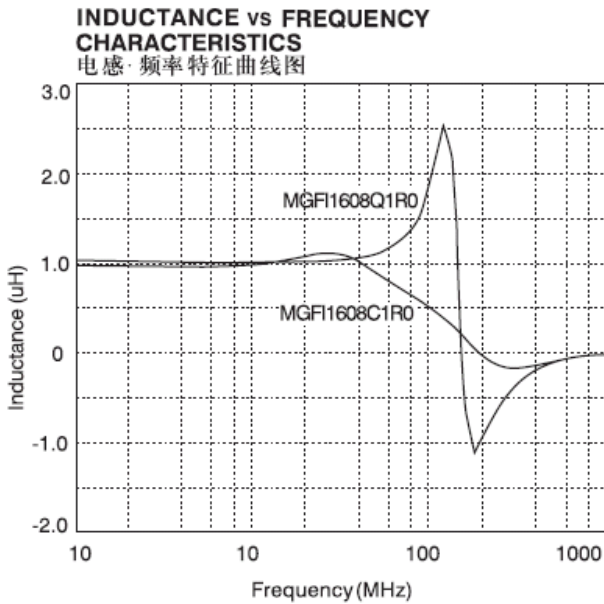


Multilayer Chip Ferrite Inductor 叠层片式铁氧体电感

MGFI 3216 (1206) Series



MGFI 1608 (0603) Q Series



MGFI 2012 (0805) Q Series

