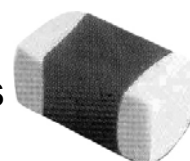


叠层片式铁氧体电感—ALMFA 系列

Multilayer Chip Ferrite Inductor – ALMFA Series

Operating Temp. : -40℃~ +85℃



特征

- 迭层独石结构、高度可靠性
- 体积小
- 良好的磁屏蔽，无交叉耦合
- 无引线结构，适合表面安装
- 良好的焊接性，适合于回流焊或波峰焊

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

用途

- 广泛运用于通讯、视频/音频、计算机、遥控器等领域

APPLICATIONS

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

产品型号

PRODUCT IDENTIFICATION

ALMFA

1608

1R0

K

T

①

②

③

④

⑤

①

分类 Type	
ALMFA	片式铁氧体电感 Chip Ferrite Inductor

②

外形尺寸和结构(L×W) (mm) External Dimensions (L×W) (mm)	
1005 [0402]	1.0×0.5
1608 [0603]	1.6×0.8
2012 [0805]	2.0×1.25
3216 [1206]	3.2×1.6

③

公称电感量 Nominal Inductance	
Example	Nominal Value
47N	0.047μH
R10	0.1μH
1R0	1.0μH
※R=小数点, N=nH	

④

电感公差 Inductance Tolerance	
K	±10%
M	±20%

⑤

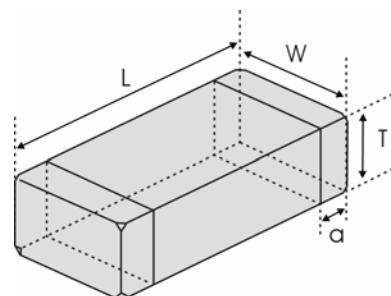
包装 Packing	
B	散装 Bulk Package
T	编带 Tape & Reel

外观尺寸

SHAPE AND DIMENSIONS

Unit: mm [inch]

Type	L	W	T	a
ALMFA1005 [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]
ALMFA1608 [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]
ALMFA2012 [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]	
ALMFA3216 [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]	



Type	Weight (mg)	Quantity /Reel	Reel and Tape width	Type	Weight (mg)	Quantity /Reel	Reel and Tape width
ALMFA1005	1	10,000	7", 8mm	ALMFA2012	10	3,000	7", 8mm
ALMFA1608	5	4,000	7", 8mm	ALMFA3216	30	3,000	7", 8mm

规格特性

SPECIFICATIONS

ALMFA1005 TYPE

Part Number 型号	Inductance 电感量	Min. Quality Factor 品质因子	L, Q Test Freq./Q 测试频率	Min.Self-resonant Frequency 自谐频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	μH	—	MHz	MHz	Ω	mA	mm [inch]
Symbol 符号	L	Q	Freq.	S.R.F	DCR	Ir	T
ALMFA1005L47N □	0.047	10	50	220	0.45	25	0.5±0.15 [.020±.006]
ALMFA1005L68N □	0.068	10	50	210	0.45	25	
ALMFA1005L82N □	0.082	10	50	200	0.45	25	
ALMFA1005LR10 □	0.1	10	25	200	0.8	25	
ALMFA1005LR12 □	0.12	10	25	165	0.8	25	
ALMFA1005LR15 □	0.15	10	25	140	0.9	25	
ALMFA1005LR18 □	0.18	10	25	120	0.9	25	
ALMFA1005LR22 □	0.22	10	25	110	1.2	25	
ALMFA1005LR27 □	0.27	15	25	95	1.2	25	
ALMFA1005LR33 □	0.33	15	25	85	1.25	18	
ALMFA1005-R39 □	0.39	20	10	85	0.6	15	
ALMFA1005-R47 □	0.47	20	10	80	0.7	15	
ALMFA1005-R56 □	0.56	20	10	75	0.8	15	
ALMFA1005-R68 □	0.68	20	10	70	0.9	15	
ALMFA1005-R82 □	0.82	20	10	65	0.9	15	
ALMFA1005P1R0 □	1.0	20	10	60	1.0	15	
ALMFA1005P1R2 □	1.2	20	10	55	1.25	15	
ALMFA1005P1R5 □	1.5	20	10	50	1.4	15	
ALMFA1005P1R8 □	1.8	20	10	45	1.55	15	
ALMFA1005P2R2 □	2.2	20	10	40	1.7	10	
ALMFA1005-1R0 □	1.0	20	10	40	0.9	15	
ALMFA1005-1R2 □	1.2	20	10	35	1.2	15	
ALMFA1005-1R5 □	1.5	20	10	30	1.2	15	
ALMFA1005-1R8 □	1.8	20	10	30	1.45	15	
ALMFA1005-2R2 □	2.2	20	10	28	1.7	10	
ALMFA1005-2R7 □	2.7	20	10	28	2.4	10	
ALMFA1005-3R3 □	3.3	20	10	28	2.7	10	

※ □: Please specify the inductance tolerance code (K=±10%, M=±20%). The product with tolerance less than ±10%, ±20% is also available. Please contact your local sales.

ALMFA1608 TYPE

Part Number 型号	Inductance 电感量	Min. Quality Factor 品质因子	L, Q Test Freq./Q 测试频率	Min.Self-resonant Frequency 自谐频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	μH	—	MHz	MHz	Ω	mA	mm [inch]
Symbol 符号	L	Q	Freq.	S.R.F	DCR	Ir	T
ALMFA1608L47N □	0.047	10	50	260	0.3	50	0.8±0.15 [.031±.006]
ALMFA1608L68N □	0.068	10	50	250	0.3	50	
ALMFA1608L82N □	0.082	10	50	245	0.3	50	
ALMFA1608LR10 □	0.1	15	25	240	0.5	50	
ALMFA1608LR12 □	0.12	15	25	205	0.5	50	
ALMFA1608LR15 □	0.15	15	25	180	0.6	50	
ALMFA1608LR18 □	0.18	15	25	165	0.6	50	
ALMFA1608LR22 □	0.22	15	25	150	0.8	50	
ALMFA1608LR27 □	0.27	15	25	136	0.8	50	
ALMFA1608LR33 □	0.33	15	25	125	0.85	35	
ALMFA1608LR39 □	0.39	15	25	110	1	35	
ALMFA1608LR47 □	0.47	15	25	105	1.35	35	
ALMFA1608LR56 □	0.56	15	25	95	1.55	35	

规格特性

SPECIFICATIONS

ALMFA1608 TYPE

Part Number 型号	Inductance 电感量	Min. Quality Factor 品质因子	L, Q Test Freq.L/Q 测试频率	Min.Self-resonant Frequency 自谐频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	μH	—	MHz	MHz	Ω	mA	mm [inch]
Symbol 符号	L	Q	Freq.	S.R.F	DCR	Ir	T
ALMFA1608LR68 □	0.68	15	25	90	1.7	35	0.8±0.15 [.031±.006]
ALMFA1608LR82 □	0.82	15	25	85	2.1	35	
ALMFA1608B1R0 □	1.0	35	10	90	0.70	25	
ALMFA1608B1R2 □	1.2	35	10	85	0.80	25	
ALMFA1608B1R5 □	1.5	35	10	80	0.95	25	
ALMFA1608B1R8 □	1.8	35	10	75	1.15	25	
ALMFA1608B2R2 □	2.2	35	10	70	1.25	25	
ALMFA1608P1R0 □	1.0	35	10	90	0.6	25	
ALMFA1608P1R1 □	1.1	35	10	90	0.6	25	
ALMFA1608P1R2 □	1.2	35	10	85	0.8	25	
ALMFA1608P1R5 □	1.5	35	10	80	0.8	25	
ALMFA1608P1R8 □	1.8	35	10	75	0.95	25	
ALMFA1608P2R2 □	2.2	35	10	70	1.15	15	
ALMFA1608-1R0 □	1.0	35	10	75	0.6	25	
ALMFA1608-1R1 □	1.1	35	10	75	0.6	25	
ALMFA1608-1R2 □	1.2	35	10	65	0.8	25	
ALMFA1608-1R5 □	1.5	35	10	60	0.8	25	
ALMFA1608-1R8 □	1.8	35	10	55	0.95	25	
ALMFA1608-2R2 □	2.2	35	10	50	1.15	15	
ALMFA1608-2R7 □	2.7	35	10	45	1.35	15	
ALMFA1608-3R3 □	3.3	35	10	40	1.55	15	
ALMFA1608-3R9 □	3.9	35	10	35	1.7	15	
ALMFA1608-4R7 □	4.7	35	10	33	2.1	15	
ALMFA1608S5R6 □	5.6	35	4	22	1.55	5	
ALMFA1608S6R8 □	6.8	35	4	20	1.7	5	
ALMFA1608S8R2 □	8.2	35	4	18	2.1	5	
ALMFA1608S100 □	10	30	2	17	1.85	3	
ALMFA1608S120 □	12	30	2	15	2.1	3	
ALMFA1608T150 □	15	20	1	14	1.7	1	
ALMFA1608T180 □	18	20	1	13	1.85	1	
ALMFA1608T220 □	22	20	1	11	2.1	1	
ALMFA1608T270 □	27	20	1	10	2.75	1	
ALMFA1608T330 □	33	20	1	9	2.95	1	

※ □: Please specify the inductance tolerance code (K=±10%, M=±20%). The product with tolerance less than ±10%, ±20% is also available. Please contact your local sales.

ALEVEL

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规格特性

SPECIFICATIONS

ALMFA2012 TYPE

Part Number 型号	Inductance 电感量	Min. Quality Factor 品质因子	L, Q Test Freq.L/Q 测试频率	Min.Self-resonant Frequency 自谐频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	μH	—	MHz	MHz	Ω	mA	mm [inch]
Symbol 符号	L	Q	Freq.	S.R.F	DCR	Ir	T
ALMFA2012L47N □	0.047	15	50	320	0.2	300	0.85±0.2 [.033±.008]
ALMFA2012L68N □	0.068	15	50	280	0.2	300	
ALMFA2012L82N □	0.082	15	50	255	0.2	300	
ALMFA2012LR10 □	0.1	20	25	235	0.3	250	
ALMFA2012LR12 □	0.12	20	25	220	0.3	250	
ALMFA2012LR15 □	0.15	20	25	200	0.4	250	
ALMFA2012LR18 □	0.18	20	25	185	0.4	250	
ALMFA2012LR22 □	0.22	20	25	170	0.5	250	
ALMFA2012LR27 □	0.27	20	25	150	0.5	250	
ALMFA2012LR33 □	0.33	20	25	145	0.55	250	
ALMFA2012LR39 □	0.39	25	25	135	0.65	200	
ALMFA2012LR47 □	0.47	25	25	125	0.65	200	
ALMFA2012LR56 □	0.56	25	25	115	0.75	150	
ALMFA2012LR68 □	0.68	25	25	105	0.8	150	
ALMFA2012LR82 □	0.82	25	25	100	1	150	
ALMFA2012P1R0 □	1.0	45	10	95	0.4	50	
ALMFA2012P1R2 □	1.2	45	10	85	0.5	50	
ALMFA2012P1R5 □	1.5	45	10	80	0.5	50	
ALMFA2012P1R8 □	1.8	45	10	75	0.6	50	
ALMFA2012P2R2 □	2.2	45	10	70	0.65	30	
ALMFA2012-1R0 □	1.0	45	10	75	0.4	50	
ALMFA2012-1R1 □	1.1	45	10	65	0.5	50	
ALMFA2012-1R2 □	1.2	45	10	65	0.5	50	
ALMFA2012-1R5 □	1.5	45	10	60	0.5	50	
ALMFA2012-1R8 □	1.8	45	10	55	0.6	50	
ALMFA2012-2R2 □	2.2	45	10	50	0.65	30	
ALMFA2012-2R4 □	2.4	45	10	47	0.70	30	
ALMFA2012-2R7 □	2.7	45	10	45	0.75	30	
ALMFA2012-3R3 □	3.3	45	10	41	0.8	30	
ALMFA2012-3R9 □	3.9	45	10	38	0.9	30	
ALMFA2012-4R7 □	4.7	45	10	35	1	30	
ALMFA2012S5R6 □	5.6	50	4	32	0.9	15	
ALMFA2012S6R8 □	6.8	50	4	29	1	15	
ALMFA2012S8R2 □	8.2	50	4	26	1.1	15	
ALMFA2012S100 □	10	50	2	24	1.15	15	
ALMFA2012S120 □	12	50	2	22	1.25	15	
ALMFA2012T150 □	15	30	1	19	0.8	5	1.25±0.2 [.049±.008]
ALMFA2012T180 □	18	30	1	18	0.9	5	
ALMFA2012T220 □	22	30	1	16	1.1	5	
ALMFA2012T270 □	27	30	1	14	1.15	5	
ALMFA2012T330 □	33	30	0.4	13	1.25	5	
ALMFA2012T390 □	39	35	2	8	2.9	4	
ALMFA2012T470 □	47	35	2	7.5	3	4	
ALMFA2012T560 □	56	35	2	7	3.1	4	
ALMFA2012T680 □	68	25	1	6.5	2.9	2	
ALMFA2012T820 □	82	25	1	6	3	2	
ALMFA2012T101 □	100	25	1	5.5	3.1	2	

※ □: Please specify the inductance tolerance code (K=±10%, M=±20%). The product with tolerance less than ±10%, ±20% is also available. Please contact your local sales.

规格特性

SPECIFICATIONS

ALMFA3216 TYPE

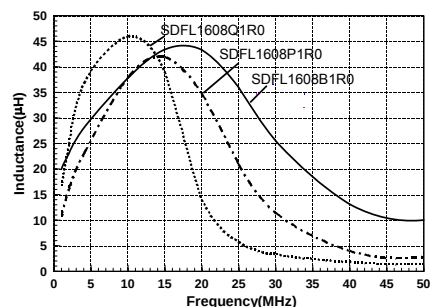
Part Number 型号	Inductance 电感量	Min. Quality Factor 品质因子	L, Q Test Freq.L/Q 测试频率	Min.Self-resonant Frequency 自谐频率	Max. DC Resistance 直流电阻	Max. Rated Current 额定电流	Thickness 厚度
Units 单位	μH	—	MHz	MHz	Ω	mA	mm [inch]
Symbol 符号	L	Q	Freq.	S.R.F	DCR	Ir	T
ALMFA3216L47N□	0.047	20	50	320	0.15	300	0.85±0.2 [.033±.008]
ALMFA3216L68N□	0.068	20	50	280	0.25	300	
ALMFA3216LR10□	0.1	20	25	235	0.25	250	
ALMFA3216LR12□	0.12	20	25	220	0.3	250	
ALMFA3216LR15□	0.15	20	25	200	0.3	250	
ALMFA3216LR18□	0.18	20	25	185	0.4	250	
ALMFA3216LR22□	0.22	20	25	170	0.4	250	
ALMFA3216LR27□	0.27	20	25	150	0.5	250	
ALMFA3216LR33□	0.33	20	25	145	0.6	250	
ALMFA3216LR39□	0.39	25	25	135	0.5	200	
ALMFA3216LR47□	0.47	25	25	125	0.6	200	
ALMFA3216LR56□	0.56	25	25	115	0.7	150	
ALMFA3216LR68□	0.68	25	25	105	0.8	150	
ALMFA3216LR82□	0.82	25	25	100	0.9	150	
ALMFA3216-1R0□	1.0	45	10	75	0.4	100	
ALMFA3216-1R2□	1.2	45	10	65	0.5	100	
ALMFA3216-1R5□	1.5	45	10	60	0.5	50	
ALMFA3216-1R8□	1.8	45	10	55	0.5	50	
ALMFA3216-2R2□	2.2	45	10	50	0.6	50	
ALMFA3216-2R7□	2.7	45	10	45	0.6	50	
ALMFA3216-3R3□	3.3	45	10	41	0.7	50	
ALMFA3216-3R9□	3.9	45	10	38	0.8	50	
ALMFA3216-4R7□	4.7	45	10	35	0.9	50	
ALMFA3216S5R6□	5.6	50	4	32	0.7	25	
ALMFA3216S6R8□	6.8	50	4	29	0.8	25	
ALMFA3216S8R2□	8.2	50	4	26	0.9	25	
ALMFA3216S100□	10	50	2	24	1	25	
ALMFA3216S120□	12	50	2	22	1.05	15	
ALMFA3216T150□	15	35	1	19	0.7	5	
ALMFA3216T180□	18	35	1	18	0.7	5	
ALMFA3216T220□	22	35	1	16	0.9	5	
ALMFA3216T270□	27	35	1	14	0.9	5	
ALMFA3216T330□	33	35	0.4	13	1.05	5	1.10±0.2 [.043±.008]
ALMFA3216T390□	39	40	2	11	3	5	
ALMFA3216T470□	47	40	2	10	3.4	5	
ALMFA3216T560□	56	40	2	9.5	3.8	4	
ALMFA3216T680□	68	40	1	9.5	3	4	
ALMFA3216T820□	82	40	1	9	3.4	4	
ALMFA3216T101□	100	40	1	8	3.8	4	

※□: Please specify the inductance tolerance code (K=±10%, M=±20%). The product with tolerance less than ±10%, ±20% is also available. Please contact your local sales.

电气特性

B, P, Q 三种材料电感的区别

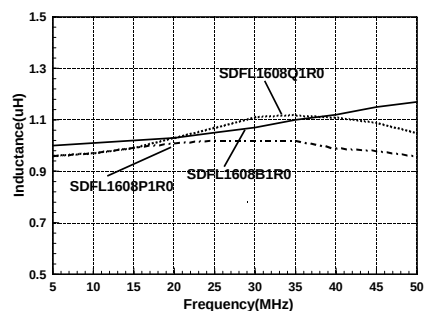
Q vs. Frequency Characteristics



TYPICAL ELECTRICAL CHARACTERISTICS

B, P, Q Material Comparison

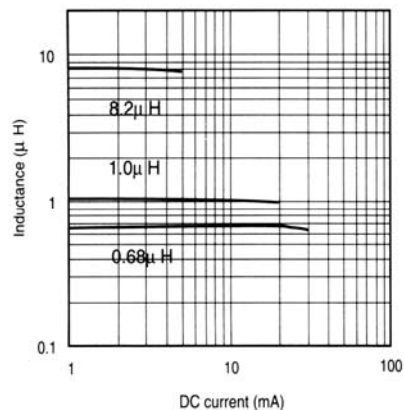
Inductance vs. Frequency Characteristics



电气特性

ALMFA1005 TYPE

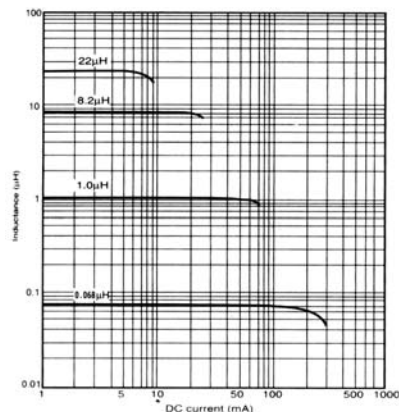
Inductance vs. DC Current Characteristics



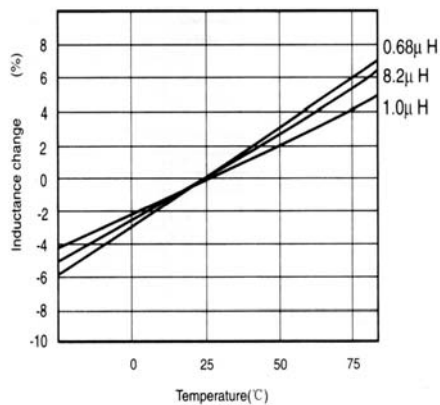
TYPICAL ELECTRICAL CHARACTERISTICS

ALMFA1608 TYPE

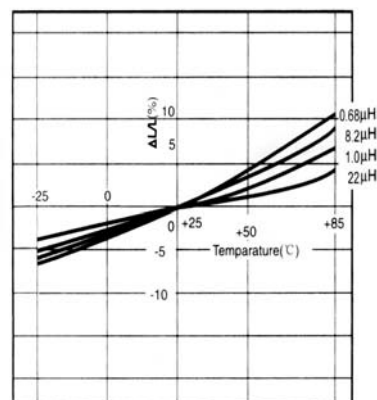
Inductance vs. DC Current Characteristics



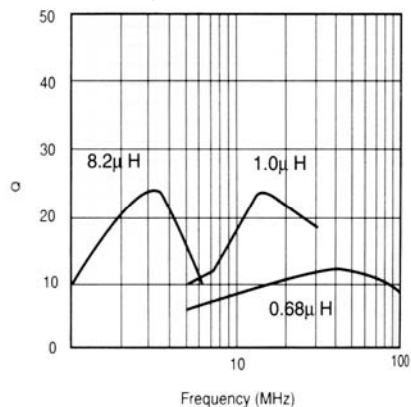
Inductance vs. Temperature Characteristics



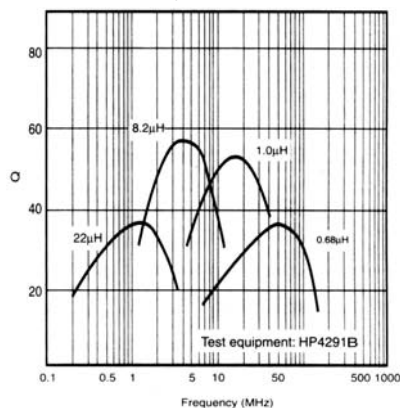
Inductance vs. Temperature Characteristics



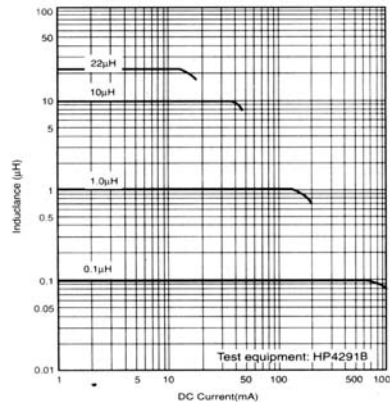
Q vs. Frequency Characteristics



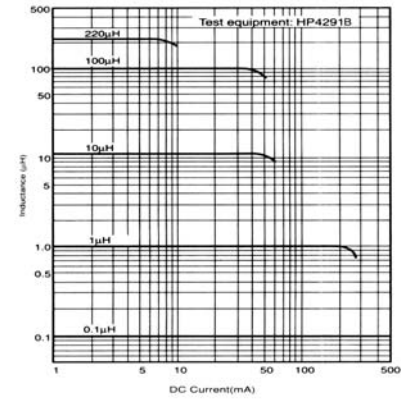
Q vs. Frequency Characteristics



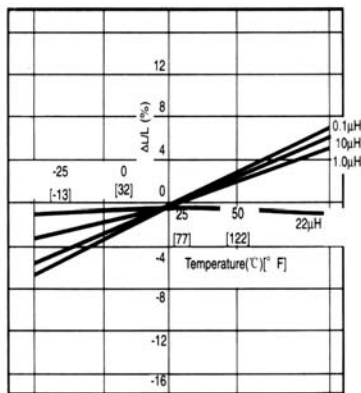
ALMFA2012 Type
Inductance vs. DC Current Characteristics



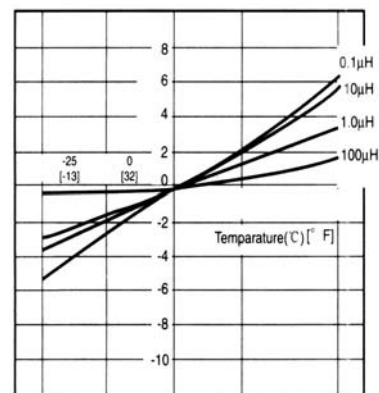
ALMFA3216 Type
Inductance vs. DC Current Characteristics



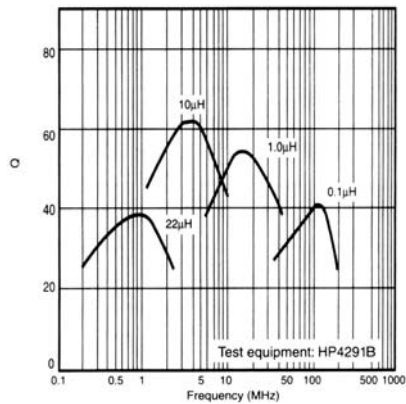
Inductance vs. Temperature Characteristics



Inductance vs. Temperature Characteristics



Q vs. Frequency Characteristics



Q vs. Frequency Characteristics

