

MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBL series for high frequency

HBL 系列適用於高頻率產品

INTRODUCTION 產品簡介

Multilayer inductor HBL series made of advanced ceramics and low resistance silver conductors provides excellent characteristics.

HBL 系列積層式電感是由瓷料和低阻抗的銀導體組成,提供優越之品質係數及共振頻率

FEATURES 特徵

1. Supports operating frequency bands up to 10GHz .
操作頻率可達 10 GHz
2. Provides high Q characteristics.
提供高的品質係數
3. Monolithic structure for high reliability.
單體結構確保高可靠性
4. Excellent solderability and high heat resistance for either flow or reflow soldering.
有良好的焊錫性及耐熱性, 適合 flow 及 reflow 兩種錫方式



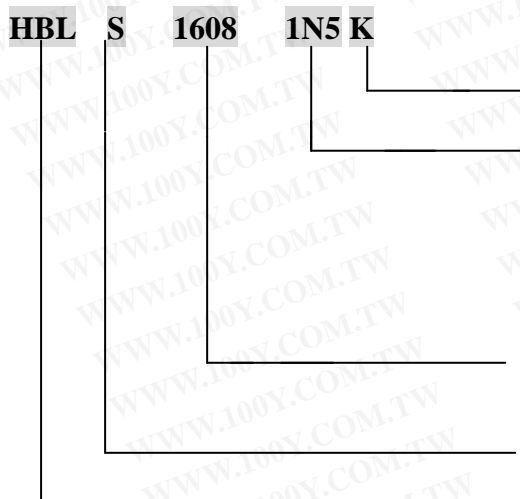
APPLICATION 產品應用

For high frequency application such as 高頻率的應用如下:

1. Mobile phones 行動電話
2. Personal Computers and Computer peripherals 個人電腦及電腦週邊設備
3. Cordless phone 無線電話
4. Pagers and personal handy phone system (PHS). 呼叫器及個人手提電話系統

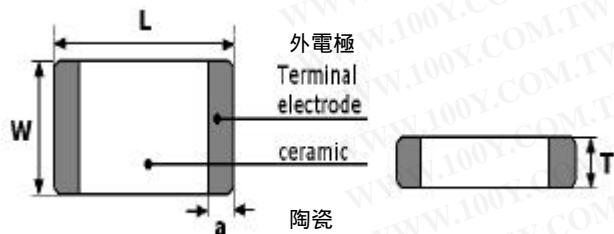
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

PART NUMBER SYSTEM 編號系統



Inductance tolerance 電感值公差
 S- $\pm 0.3nH$ - $\pm 0.5nH$ - $\pm 5\%$ - $\pm 10\%$
 Inductance value code 電感值
 Expressed in nH 以 nH 表示
 Example: 例如
 1N0 --- ± 1.0 nH
 1N5 --- ± 1.5 nH
 R10 --- ± 100 nH
 Size code 尺寸碼 Dimensions L x W 尺寸 長 x 寬
 1608 1.6 x 0.8 (mm)
 Lead Free 無鉛碼
 Product series code 產品系列碼

SHAPES AND DIMENSIONS 形狀和尺寸



SHAPE 尺寸	L 長 m/m	W 寬 m/m	T 厚 m/m	a 銀寬 m/m
1005(0402)	1.0 \pm 0.05	0.5 \pm 0.05	0.5 \pm 0.05	0.1-0.3
1608(0603)	1.6 \pm 0.15	0.8 \pm 0.15	0.8 \pm 0.15	0.2-0.6
2012(0805)	2.0 \pm 0.2	1.25 \pm 0.2	*	0.2-0.8

*Please refer to the detailed figures shown in the HBL2012 series table
 厚度請參考 HBL2012 系列特性表

MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBLS series for high frequency

HBLS 系列適用於高頻率產品

Electrical characteristics 電氣特性

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Shape(尺寸): 1005(0402)

Part Number 料號	Inductance 感值(nH) Tolerance 公差	Q Min 品質 係數	Test Frequency L,Q(MHz) 測試頻率	Self-resonant Frequency (GHz)Min 共振頻率	DC Resistance ()Max 直流阻抗	Rated Current (mA)Max 額定電流	Thickness (m/m) 厚度
HBLS1005 -1N0S	1.0±0.3nH	8	100	10	0.08	300	0.5±0.05
HBLS1005 -1N2S	1.2±0.3nH	8	100	10	0.09	300	0.5±0.05
HBLS1005 -1N5S	1.5±0.3nH	8	100	6	0.10	300	0.5±0.05
HBLS1005 -1N8S	1.8±0.3nH	8	100	6	0.12	300	0.5±0.05
HBLS1005 -2N0S	2.0±0.3nH	8	100	6	0.12	300	0.5±0.05
HBLS1005 -2N2S	2.2±0.3nH	8	100	6	0.13	300	0.5±0.05
HBLS1005 -2N4S	2.4±0.3nH	8	100	6	0.13	300	0.5±0.05
HBLS1005 -2N7S	2.7±0.3nH	8	100	6	0.13	300	0.5±0.05
HBLS1005 -3N0S	3.0±0.3nH	8	100	6	0.16	300	0.5±0.05
HBLS1005 -3N3S	3.3±0.3nH	8	100	6	0.16	300	0.5±0.05
HBLS1005 -3N9S	3.9±0.3nH	8	100	4	0.21	300	0.5±0.05
HBLS1005 -4N7S	4.7±0.3nH	8	100	4	0.21	300	0.5±0.05
HBLS1005 -5N6S	5.6±0.3nH	8	100	4	0.23	300	0.5±0.05
HBLS1005 -6N8J	6.8±5%	8	100	3.9	0.25	300	0.5±0.05
HBLS1005 -8N2J	8.2±5%	8	100	3.6	0.28	300	0.5±0.05
HBLS1005 -10N1	10±5%	8	100	3.2	0.31	300	0.5±.005
HBLS1005 -12N1	12±5%	8	100	2.7	0.40	300	0.5±0.05
HBLS1005 -15N1	15±5%	8	100	2.3	0.46	300	0.5±0.05
HBLS1005 -18N1	18±5%	8	100	2.1	0.55	300	0.5±0.05
HBLS1005 -22N1	22±5%	8	100	1.9	0.60	300	0.5±0.05
HBLS1005 -27N1	27±5%	8	100	1.6	0.70	300	0.5±0.05
HBLS10 05-33N1	33±5%	8	100	1.3	0.80	200	0.5±0.05
HBLS1005 -39N1	39±5%	8	100	1.2	0.90	200	0.5±0.05
HBLS1005 -47N1	47±5%	8	100	1.0	1.00	200	0.5±0.05
HBLS1005 -56N1	56±5%	8	100	0.75	1.00	200	0.5±0.05
HBLS1005 -68N1	68±5%	8	100	0.75	1.20	180	0.5±0.05
HBLS1005 -82N1	82±5%	8	100	0.60	1.30	150	0.5±0.05
HBLS1005 -R10J	100±5%	8	100	0.60	1.50	150	0.5±0.05
HBLS1005 -R12J	120±5%	8	100	0.60	1.60	150	0.5±0.05

*TEST EQUIPMENT: HP -4287A RF LCR METER 量測儀器 :HP-4287A 射頻阻抗分析儀

MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBL5 series for high frequency

HBL5 系列適用於高頻率產品

Electrical characteristics 電氣特性



Shape(尺寸): 1608(0603)

Part Number 料號	Inductance 感值(nH) Tolerance 公差	Q Min 品質 係數	Test Frequency L,Q(MHz) 測試頻率	Self-resonant Frequency (GHz)Min 共振頻率	DC Resistance ()Max 直流阻抗	Rated Current (mA)Max 額定電流	Thickness (m/m) 厚度
HBL51608 -1N0S	1.0±0.3nH	8	100	10	0.05	300	0.8±0.15
HBL51608 -1N2S	1.2±0.3nH	8	100	10	0.05	300	0.8±0.15
HBL51608 -1N5S	1.5±0.3nH	8	100	6.0	0.10	300	0.8±0.15
HBL51608 -1N8S	1.8±0.3nH	8	100	6.0	0.10	300	0.8±0.15
HBL51608 -2N2S	2.2±0.3nH	8	100	6.0	0.10	300	0.8±0.15
HBL51608 -2N7S	2.7±0.3nH	10	100	6.0	0.10	300	0.8±0.15
HBL51608 -3N3S	3.3±0.3nH	10	100	6.0	0.12	300	0.8±0.15
HBL51608 -3N9S	3.9±0.3nH	10	100	6.0	0.14	300	0.8±0.15
HBL51608 -4N7S	4.7±0.3nH	10	100	4.0	0.16	300	0.8±0.15
HBL51608 -5N6S	5.6±0.3nH	10	100	4.0	0.18	300	0.8±0.15
HBL51608 -6N8J	6.8±5%	10	100	4.0	0.22	300	0.8±0.15
HBL51608 -8N2J	8.2±5%	10	100	3.5	0.24	300	0.8±0.15
HBL51608 -10N	10±5%	12	100	3.4	0.26	300	0.8±0.15
HBL51608 -12N	12±5%	12	100	2.6	0.28	300	0.8±0.15
HBL51608 -15N	15±5%	12	100	2.3	0.32	300	0.8±0.15
HBL51608 -18N	18±5%	12	100	2.0	0.35	300	0.8±0.15
HBL51608 -22N	22±5%	12	100	1.6	0.40	300	0.8±0.15
HBL51608 -27N	27±5%	12	100	1.4	0.45	300	0.8±0.15
HBL51608 -33N	33±5%	12	100	1.2	0.55	300	0.8±0.15
HBL51608 -39N	39±5%	12	100	1.1	0.60	300	0.8±0.15
HBL51608 -47N	47±5%	12	100	0.9	0.70	300	0.8±0.15
HBL51608 -56N	56±5%	12	100	0.9	0.75	300	0.8±0.15
HBL51608 -68N	68±5%	12	100	0.7	0.85	300	0.8±0.15
HBL51608 -82N	82±5%	12	100	0.6	0.95	300	0.8±0.15
HBL51608 -R10J	100±5%	12	100	0.6	1.00	300	0.8±0.15
HBL51608 -R12J	120±5%	8	50	0.5	1.20	300	0.8±0.15
HBL51608 -R15J	150±5%	8	50	0.5	1.20	300	0.8±0.15
HBL51608 -R18J	180±5%	8	50	0.4	1.30	300	0.8±0.15
HBL51608 -R22J	220±5%	8	50	0.4	1.50	300	0.8±0.15

*TEST EQUIPMENT: HP -4287A RF LCR METER 量測儀器 :HP-4287A 射頻阻抗分析儀

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HBLS series for high frequency

HBLS 系列適用於高頻率產品

Electrical characteristics 電氣特性



Shape(尺寸): 2012(0805)

Part Number 料號	Inductance 感值 (nH) Tolerance 公差	Q Min 品質係 數	Test Frequency L,Q(MHz) 測試頻率	Self-resonant Frequency (GHz)Min 共振頻率	DC Resistance ()Max 直流電阻	Rated Current (mA)Max 額定電流	Thickness (m/m) 厚度
HBLS2012-1N0S	1.0±0.3nH	10	100	10	0.10	300	0.85±0.2
HBLS2012-1N2S	1.2±0.3nH	10	100	10	0.10	300	0.85±0.2
HBLS2012-1N5S	1.5±0.3nH	10	100	4.0	0.10	300	0.85±0.2
HBLS2012-1N8S	1.8±0.3nH	10	100	4.0	0.10	300	0.85±0.2
HBLS2012-2N2S	2.2±0.3nH	10	100	4.0	0.10	300	0.85±0.2
HBLS2012-2N7S	2.7±0.3nH	12	100	4.0	0.10	300	0.85±0.2
HBLS2012-3N3S	3.3±0.3nH	12	100	4.0	0.13	300	0.85±0.2
HBLS2012-3N9S	3.9±0.3nH	12	100	4.0	0.15	300	0.85±0.2
HBLS2012-4N7S	4.7±0.3nH	12	100	3.5	0.20	300	0.85±0.2
HBLS2012-5N6S	5.6±0.3nH	15	100	3.2	0.23	300	0.85±0.2
HBLS2012-6N8J	6.8±5%	15	100	2.8	0.25	300	0.85±0.2
HBLS2012-8N2J	8.2±5%	15	100	2.4	0.28	300	0.85±0.2
HBLS2012-10NJ	10±5%	15	100	2.1	0.30	300	0.85±0.2
HBLS2012-12NJ	12±5%	15	100	1.9	0.35	300	0.85±0.2
HBLS2012-15NJ	15±5%	15	100	1.6	0.40	300	0.85±0.2
HBLS2012-18NJ	18±5%	15	100	1.5	0.45	300	0.85±0.2
HBLS2012-22NJ	22±5%	18	100	1.4	0.50	300	0.85±0.2
HBLS2012-27NJ	27±5%	18	100	1.3	0.55	300	0.85±0.2
HBLS2012-33NJ	33±5%	18	100	1.2	0.60	300	0.85±0.2
HBLS2012-39NJ	39±5%	18	100	1.0	0.65	300	0.85±0.2
HBLS2012-47NJ	47±5%	18	100	0.9	0.70	300	1.0±0.3
HBLS2012-56NJ	56±5%	18	100	0.8	0.75	300	1.0±0.3
HBLS2012-68NJ	68±5%	18	100	0.7	0.80	300	1.0±0.3
HBLS2012-82NJ	82±5%	18	100	0.6	0.90	300	1.0±0.3
HBLS2012-R10J	100±5%	18	100	0.6	0.90	300	1.0±0.3
HBLS2012-R12J	120±5%	13	50	0.5	0.95	300	1.0±0.3
HBLS2012-R15J	150±5%	13	50	0.5	1.00	300	1.0±0.3
HBLS2012-R18J	180±5%	13	50	0.4	1.10	300	1.0±0.3
HBLS2012-R22J	220±5%	12	50	0.35	1.20	300	1.0±0.3
HBLS2012-R27J	270±5%	12	50	0.3	1.30	300	1.0±0.3
HBLS2012-R33J	330±5%	12	50	0.25	1.40	300	1.0±0.3
HBLS2012-R39J	390±5%	10	50	0.25	1.40	300	1.0±0.3
HBLS2012-R47J	470±5%	10	50	0.20	1.50	300	1.0±0.3
HBLS2012-R56J	560±5%	10	25	0.18	5.00	50	1.0±0.3
HBLS2012-R68J	680±5%	10	25	0.16	5.50	50	1.0±0.3

* TEST EQUIPME NT: HP-4287A RF LCR METER

量測儀器：HP-4287A 射頻阻抗分析儀

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HBLSeries for high frequency

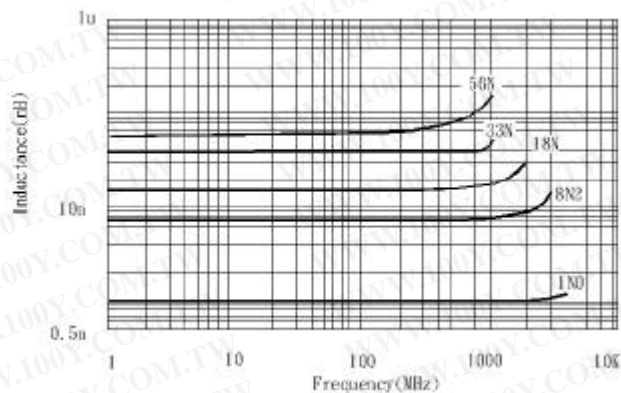
HBLS 列適用於高頻率產品

Electrical characteristics 電氣特性

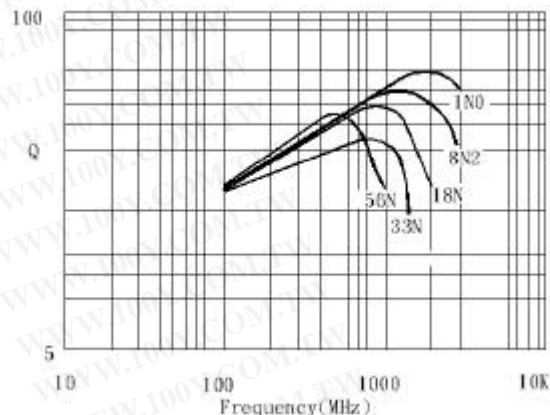
Shape(尺寸): 1005(0402)



INDUCTANCE vs. FREQUENCY

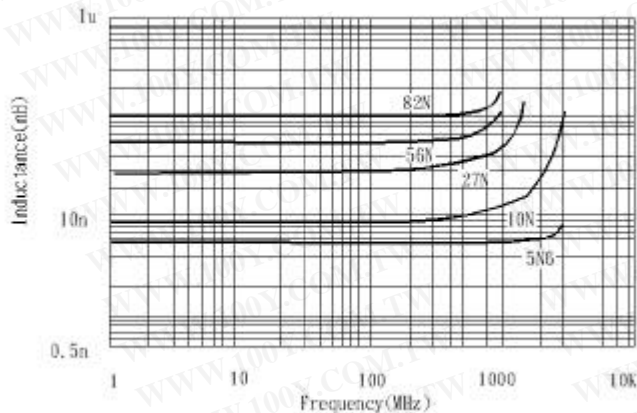


Q vs. FREQUENCY

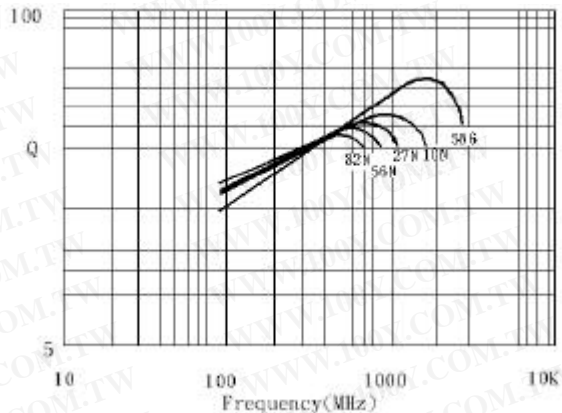


Shape(尺寸): 1608(0603)

INDUCTANCE vs. FREQUENCY



Q vs. FREQUENCY

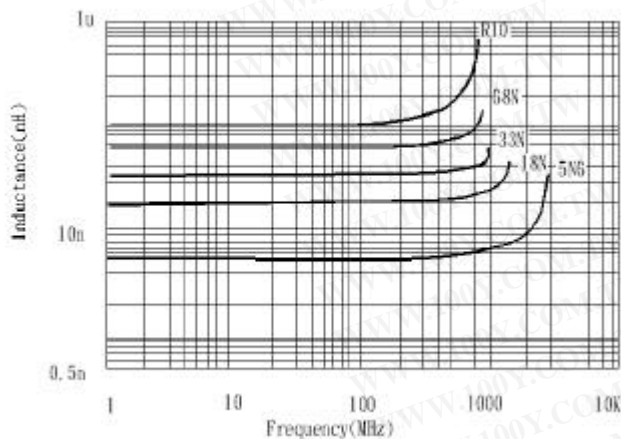


Shape(尺寸): 2012(0805)

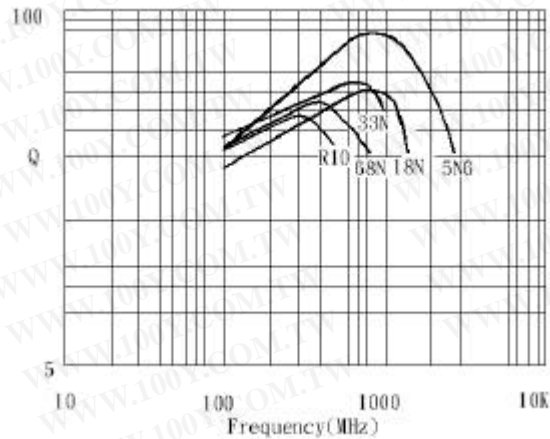
INDUCTANCE vs. FREQUENCY CHARACTERISTICS

Q vs. FREQUENCY CHARACTERISTICS

INDUCTANCE vs. FREQUENCY



Q vs. FREQUENCY



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Non-polarity High Frequency Chip Inductors

無極性高頻晶片電感

BHLS 無極性高頻晶片電感



BHLS SERIES 系列

FEATURES 特徵

- The gigaspiral multilayer structure reduces self frequencies and suppresses the reduction of Q values in gigahertz bandwidths.
由於螺旋式積層結構在 GHz 頻寬下降低共振頻率,以及抑制品質因數(Q值的衰減).
- Advanced monolithic structure is formed using multilayering and sintering process with ceramic and conductive materials for high frequency.
先進的單體結構是使用積層的堆層方式,陶瓷的燒結過程及傳導性的材質適用於高頻。
- Because the part is polarization, it can be used in multichip modules.
由於無極性限制,所以可使用於罐裝容量包裝
- Provides high Q characteristics in high frequency.
在高頻率時提供高的品質因數(Q值特性).

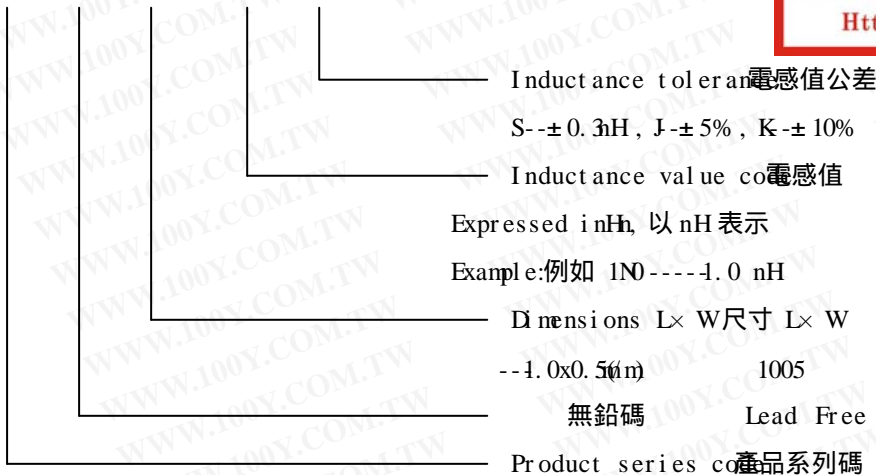
APPLICATION 應用

High-frequency circuits for portable telephones, personal handphones (PHS), pagers or other mobile communication appliances.

高頻線路應用於手機,個人通訊系統,呼叫器,或者其他行動通訊設備的需求。

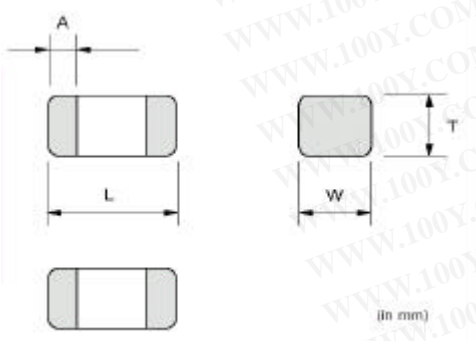
PART NUMBER SYSTEM 料號系統

BHL S 1005 1N0 S



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SHAPES AND DIMENSIONS 形狀和尺寸



TYPE系列	L長 m/m	W寬 m/m	T厚 m/m	A銀寬 m/m
BHL1005	1.0±0.1	0.5±0.1	0.5±0.1	0.15-0.35
BHL1608	1.6±0.15	0.8±0.15	0.8±0.05	0.20-0.60

Non-polarity High Frequency Chip Inductors 無極性高頻晶片電感

Electrical characteristics 電氣特性

Shape(尺寸): 1005(0402)

Part Number 料號	Inductance (電感) nH Tolerance 公差	Q Min	Q Typ.	Self-resonant Frequency (GHz)Min 共振頻率	DC Resistance (MAX) 直流阻抗	Rated Current mA (MAX) 額定電流
		品質係數 100MHz	品質係數 1GHz			
BHLS1005 -1N0S	1.0±0.3nH	5	24	12	0.10	300
BHLS1005 -1N2S	1.2±0.3nH	5	26	11	0.15	300
BHLS1005 -1N5S	1.5±0.3nH	6	28	9.5	0.16	300
BHLS1005 -1N8S	1.8±0.3nH	6	29	8.5	0.20	300
BHLS1005 -2N2S	2.2±0.3nH	6	29	8.0	0.21	300
BHLS1005 -2N7S	2.7±0.3nH	6	30	7.5	0.23	300
BHLS1005 -3N8S	3.3±0.3nH	7	32	7.0	0.25	300
BHLS1005 -3N9S	3.9±0.3nH	7	30	6.5	0.28	300
BHLS1005 -4N7S	4.7±0.3nH	7	31	6.0	0.32	300
BHLS1005 -5N6S	5.6±0.3nH	7	31	5.7	0.35	300
BHLS1005 -6N8J	6.8±5%	7	31	5.5	0.38	300
BHLS1005 -8N2J	8.2±5%	7	31	5.0	0.42	300
BHLS1005 -10N	10±5%	7	31	4.7	0.45	200
BHLS1005 -12N	12±5%	7	32	4.3	0.50	200
BHLS1005 -15N	15±5%	7	30	4.0	0.55	200
BHLS1005 -18N	18±5%	7	30	3.7	0.65	200
BHLS1005-22N	22±5%	7	30	3.5	0.75	200
BHLS1005 -27N	27±5%	7	28	3.0	0.95	200
BHLS1005 -33N	33±5%	7	27	2.5	1.10	200
BHLS1005 -39N	39±5%	6	27	2.0	1.20	100
BHLS1005 -47N	47±5%	6	26	1.8	1.30	100
BHLS1005 -56N	56±5%	6	25	1.5	1.40	100
BHLS1005 -68N	68±5%	6	23	1.2	1.60	100
BHLS1005 -82N	82±5%	6	20	1.0	1.80	50
BHLS1005 -R10J	100±5%	6	20	0.8	2.20	50

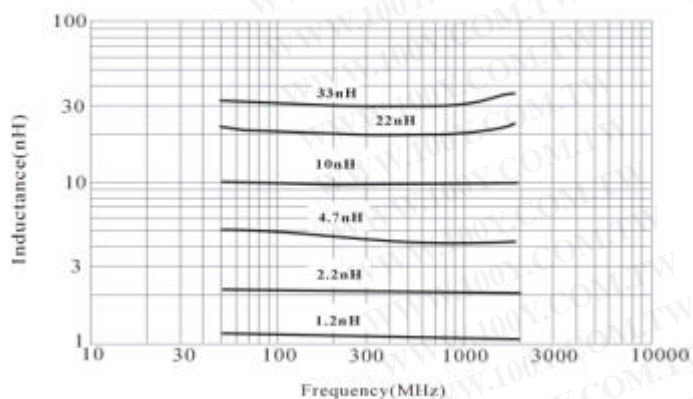
*Test Equipment HP4291A IMPEDANCE ANALYZER

設備儀器: HP4291A 阻值分析儀

TYPICAL ELECTRICAL CHARACTERISTICS 典型之電氣特性

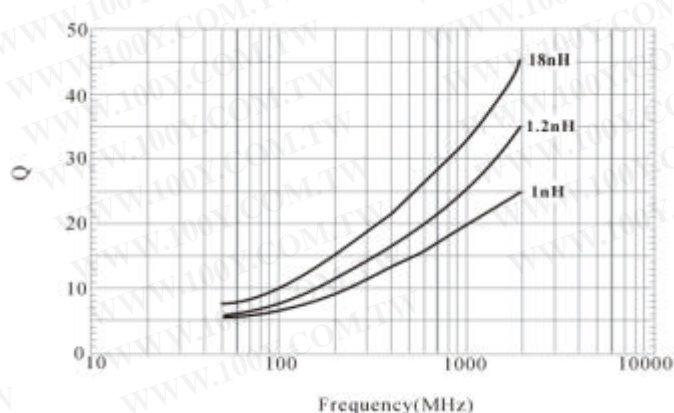
L vs. FREQUENCY CHARACTERISTICS

L vs. 頻率之電器特性



Q vs. FREQUENCY CHARACTERISTICS

Q vs. 頻率之電器特性



Non-polarity High Frequency Chip Inductors 無極性高頻晶片電感

Electrical characteristics 電氣特性

Shape(尺寸): 1608(0603)

Part Number 料號	Inductance (電感) nH Tolerance 公差	Q Min	Q Typ.	Self-resonant Frequency (GHz)Min 共振頻率	DC Resistance (MAX) 直流阻抗	Rated Current mA (MAX) 額定電流
		品質係數 100MHz	品質係數 1GHz			
BHLS1608 -1N0S	1.0±0.3n H	5	24	12	0.20	300
BHLS1608 -1N2S	1.2±0.3n H	5	26	11	0.25	300
BHLS1608 -1N5S	1.5±0.3n H	6	28	9.5	0.30	300
BHLS1608 -1N8S	1.8±0.3n H	6	29	8.5	0.35	300
BHLS1608 -2N2S	2.2±0.3n H	6	29	8.0	0.40	300
BHLS1608 -2N5S	2.7±0.3n H	6	30	7.5	0.45	300
BHLS1608 -3N8S	3.3±0.3n H	7	32	7.0	0.50	200
BHLS1608 -3N9S	3.9±0.3n H	7	30	6.5	0.55	200
BHLS1608 -4N7S	4.7±0.3n H	7	31	6.0	0.60	200
BHLS1608 -5N6S	5.6±0.3n H	7	31	5.7	0.70	200
BHLS1608 -6N8J	6.8± 5%	7	31	5.5	0.80	200
BHLS1608 -8N2J	8.2± 5%	7	31	5.0	0.90	200
BHLS1608 -10NJ	10 ± 5%	7	31	4.7	1.00	200
BHLS1608 -12NJ	12 ± 5%	7	32	4.3	1.10	150
BHLS1608 -15NJ	15 ± 5%	7	30	4.0	1.20	150
BHLS1608 -18NJ	18 ± 5%	7	30	3.7	1.40	100
BHLS1608 -22NJ	22 ± 5%	7	30	3.5	1.60	100
BHLS1608 -27NJ	27 ± 5%	7	28	3.0	1.65	50
BHLS1608 -33NJ	33 ± 5%	7	27	2.5	1.70	50
BHLS1608 -39NJ	39 ± 5%	6	27	2.0	1.75	50
BHLS1608 -47NJ	47 ± 5%	6	26	1.8	1.80	50
BHLS1608 -56NJ	56 ± 5%	6	25	1.5	1.85	50
BHLS1608 -68NJ	68 ± 5%	6	23	1.2	1.95	50
BHLS1608 -82NJ	82 ± 5%	6	20	1.0	2.00	30
BHLS1608 -R10J	100 ± 5%	6	20	0.8	2.10	30
BHLS1608 -R12J	120 ± 5%	5	17	0.7	2.30	30
BHLS1608 -R15J	150 ± 5%	5	17	0.7	2.40	30

* Test Equipment HP4291A IMPEDANCE ANALYZER

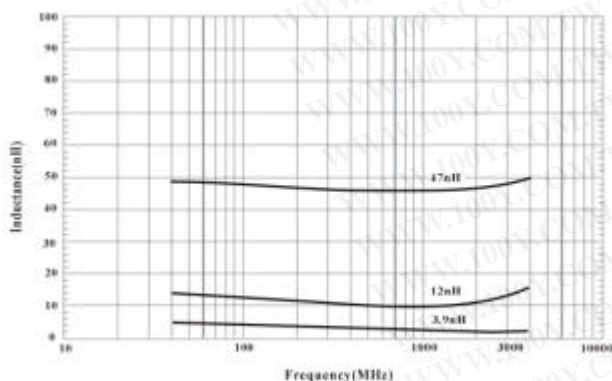
設備儀器: HP4291A 阻值分析儀

TYPICAL ELECTRICAL CHARACTERISTICS

典型之電氣特性

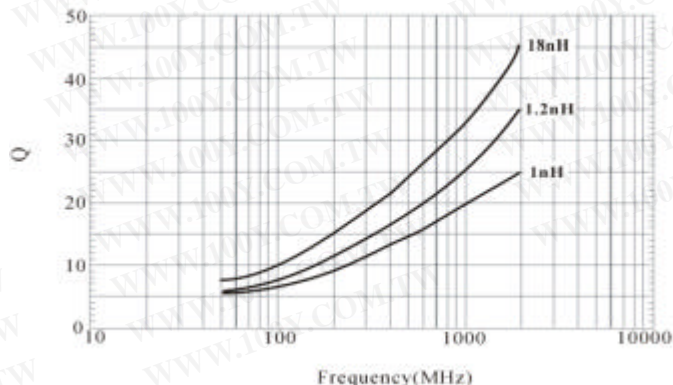
L vs. FREQUENCY CHARACTERISTICS

L vs. 頻率之電器特性



Q vs. FREQUENCY CHARACTERISTICS

Q vs. 頻率之電器特性



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MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBLS series for high frequency

HBLS 系列適用於高頻率產品

Electrical characteristics 電氣特性



Shape(尺寸): 0603(0201)

Part Number 產品料號	Inductance 感值 (nH) Tolerance 公差	Q Min 品質 係數	Test Frequency (MHz) 測試頻率	Self-resonant Frequency (GHz) Min 共振頻率	DC Resistance (Ω) Max 直流電阻	Rated Current (mA)max 額定電流	Thickness (mm) 厚度	Part Number 產品料號
HBLS0603-1N0S	1.0	±0.3nH	4	100	10	0.14	250	0.33Max
HBLS0603-1N2S	1.2	±0.3nH	4	100	10	0.14	250	0.33Max
HBLS0603-1N5S	1.5	±0.3nH	4	100	10	0.18	230	0.33Max
HBLS0603-1N8S	1.8	±0.3nH	4	100	10	0.19	200	0.33Max
HBLS0603-2N2S	2.2	±0.3nH	4	100	8.8	0.22	200	0.33Max
HBLS0603-2N7S	2.7	±0.3nH	5	100	7.7	0.25	200	0.33Max
HBLS0603-3N3S	3.3	±0.3nH	5	100	6.7	0.30	180	0.33Max
HBLS0603-3N9S	3.9	±0.3nH	5	100	6.0	0.30	170	0.33Max
HBLS0603-4N7S	4.7	±0.3nH	5	100	5.3	0.40	150	0.33Max
HBLS0603-5N1S	5.1	±0.3nH	5	100	4.7	0.40	150	0.33Max
HBLS0603-5N6S	5.6	±0.3nH	5	100	4.2	0.40	150	0.33Max
HBLS0603-6N8J	6.8	±5%	5	100	3.5	0.50	150	0.33Max
HBLS0603-8N2J	8.2	±5%	5	100	3.2	0.55	150	0.33Max
HBLS0603-10NJ	10	±5%	5	100	2.8	0.65	150	0.33Max
HBLS0603-12NJ	12	±5%	5	100	2.4	0.70	100	0.33Max
HBLS0603-15NJ	15	±5%	5	100	2.2	0.80	100	0.33Max
HBLS0603-18NJ	18	±5%	5	100	2.1	0.90	100	0.33Max
HBLS0603-22NJ	22	±5%	5	100	1.8	1.20	100	0.33Max
HBLS0603-27NJ	27	±5%	4	100	1.8	1.80	50	0.33Max
HBLS0603-33NJ	33	±5%	4	100	1.7	2.10	50	0.33Max
HBLS0603-39NJ	39	±5%	4	100	1.5	2.40	50	0.33Max

* TEST EQUIPMENT: E4991A IMPEDANCE ANALYZER

量測儀器 : E4991A 阻抗分析儀

*Tolerance: S=±0.3nH , J=±5%, K=±10%

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MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBSL series for high frequency

HBSL 系列適用於高頻率產品

Electrical characteristics 電氣特性



Shape(尺寸): 1005(0402)

Part Number 產品料號	Inductance 感值 (nH) Tolerance 公差	Q Min 品質 係數	Test Frequency (MHz) 測試頻率	Self-resonant Frequency (GHz) Min 共振頻率	DC Resistance (Ω) Max 直流電阻	Rated Current (mA) Max 額定電流	Thickness (mm) 厚度
HBLS1005-1N0S	1.0 \pm 0.3nH	8	100	10	0.08	300	0.5 \pm 0.05
HBLS1005-1N2S	1.2 \pm 0.3nH	8	100	10	0.09	300	0.5 \pm 0.05
HBLS1005-1N5S	1.5 \pm 0.3nH	8	100	6	0.10	300	0.5 \pm 0.05
HBLS1005-1N8S	1.8 \pm 0.3nH	8	100	6	0.12	300	0.5 \pm 0.05
HBLS1005-2N0S	2.0 \pm 0.3nH	8	100	6	0.12	300	0.5 \pm 0.05
HBLS1005-2N2S	2.2 \pm 0.3nH	8	100	6	0.13	300	0.5 \pm 0.05
HBLS1005-2N4S	2.4 \pm 0.3nH	8	100	6	0.13	300	0.5 \pm 0.05
HBLS1005-2N7S	2.7 \pm 0.3nH	8	100	6	0.13	300	0.5 \pm 0.05
HBLS1005-3N0S	3.0 \pm 0.3nH	8	100	6	0.16	300	0.5 \pm 0.05
HBLS1005-3N3S	3.3 \pm 0.3nH	8	100	6	0.16	300	0.5 \pm 0.05
HBLS1005-3N9S	3.9 \pm 0.3nH	8	100	4	0.21	300	0.5 \pm 0.05
HBLS1005-4N7S	4.7 \pm 0.3nH	8	100	4	0.21	300	0.5 \pm 0.05
HBLS1005-5N6S	5.6 \pm 0.3nH	8	100	4	0.23	300	0.5 \pm 0.05
HBLS1005-6N8J	6.8 \pm 5%	8	100	3.9	0.25	300	0.5 \pm 0.05
HBLS1005-8N2J	8.2 \pm 5%	8	100	3.6	0.28	300	0.5 \pm 0.05
HBLS1005-10NJ	10 \pm 5%	8	100	3.2	0.31	300	0.5 \pm 0.05
HBLS1005-12NJ	12 \pm 5%	8	100	2.7	0.40	300	0.5 \pm 0.05
HBLS1005-15NJ	15 \pm 5%	8	100	2.3	0.46	300	0.5 \pm 0.05
HBLS1005-18NJ	18 \pm 5%	8	100	2.1	0.55	300	0.5 \pm 0.05
HBLS1005-22NJ	22 \pm 5%	8	100	1.9	0.60	300	0.5 \pm 0.05
HBLS1005-27NJ	27 \pm 5%	8	100	1.6	0.70	300	0.5 \pm 0.05
HBLS1005-33NJ	33 \pm 5%	8	100	1.3	0.80	200	0.5 \pm 0.05
HBLS1005-39NJ	39 \pm 5%	8	100	1.2	0.90	200	0.5 \pm 0.05
HBLS1005-47NJ	47 \pm 5%	8	100	1.0	1.00	200	0.5 \pm 0.05
HBLS1005-56NJ	56 \pm 5%	8	100	0.75	1.00	200	0.5 \pm 0.05
HBLS1005-68NJ	68 \pm 5%	8	100	0.75	1.20	180	0.5 \pm 0.05
HBLS1005-82NJ	82 \pm 5%	8	100	0.60	1.30	150	0.5 \pm 0.05
HBLS1005-R10J	100 \pm 5%	8	100	0.60	1.50	150	0.5 \pm 0.05
HBLS1005-R12J	120 \pm 5%	8	100	0.60	1.60	150	0.5 \pm 0.05

* TEST EQUIPMENT: E4991A IMPEDANCE ANALYZER

量測儀器 : E4991A 阻抗分析儀

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MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBLS series for high frequency

HBLS 系列適用於高頻率產品

Electrical characteristics 電氣特性



Shape(尺寸): 1608(0603)

Part Number 產品料號	Inductance 感值 (nH) Tolerance 公差	Q Min 品質 係數	Test Frequency (MHz) 測試頻率	Self-resonant Frequency (GHz) Min 共振頻率	DC Resistance (Ω) Max 直流電阻	Rated Current (mA) Max 額定電流	Thickness (mm) 厚度
HBLS1608-1N0S	1.0 \pm 0.3nH	8	100	10	0.05	300	0.8 \pm 0.15
HBLS1608-1N2S	1.2 \pm 0.3nH	8	100	10	0.05	300	0.8 \pm 0.15
HBLS1608-1N5S	1.5 \pm 0.3nH	8	100	6.0	0.10	300	0.8 \pm 0.15
HBLS1608-1N8S	1.8 \pm 0.3nH	8	100	6.0	0.10	300	0.8 \pm 0.15
HBLS1608-2N2S	2.2 \pm 0.3nH	8	100	6.0	0.10	300	0.8 \pm 0.15
HBLS1608-2N7S	2.7 \pm 0.3nH	10	100	6.0	0.10	300	0.8 \pm 0.15
HBLS1608-3N3S	3.3 \pm 0.3nH	10	100	6.0	0.12	300	0.8 \pm 0.15
HBLS1608-3N9S	3.9 \pm 0.3nH	10	100	6.0	0.14	300	0.8 \pm 0.15
HBLS1608-4N7S	4.7 \pm 0.3nH	10	100	4.0	0.16	300	0.8 \pm 0.15
HBLS1608-5N6S	5.6 \pm 0.3nH	10	100	4.0	0.18	300	0.8 \pm 0.15
HBLS1608-6N8J	6.8 \pm 5%	10	100	4.0	0.22	300	0.8 \pm 0.15
HBLS1608-8N2J	8.2 \pm 5%	10	100	3.5	0.24	300	0.8 \pm 0.15
HBLS1608-10NJ	10 \pm 5%	12	100	3.4	0.26	300	0.8 \pm 0.15
HBLS1608-12NJ	12 \pm 5%	12	100	2.6	0.28	300	0.8 \pm 0.15
HBLS1608-15NJ	15 \pm 5%	12	100	2.3	0.32	300	0.8 \pm 0.15
HBLS1608-18NJ	18 \pm 5%	12	100	2.0	0.35	300	0.8 \pm 0.15
HBLS1608-22NJ	22 \pm 5%	12	100	1.6	0.40	300	0.8 \pm 0.15
HBLS1608-27NJ	27 \pm 5%	12	100	1.4	0.45	300	0.8 \pm 0.15
HBLS1608-33NJ	33 \pm 5%	12	100	1.2	0.55	300	0.8 \pm 0.15
HBLS1608-39NJ	39 \pm 5%	12	100	1.1	0.60	300	0.8 \pm 0.15
HBLS1608-47NJ	47 \pm 5%	12	100	0.9	0.70	300	0.8 \pm 0.15
HBLS1608-56NJ	56 \pm 5%	12	100	0.9	0.75	300	0.8 \pm 0.15
HBLS1608-68NJ	68 \pm 5%	12	100	0.7	0.85	300	0.8 \pm 0.15
HBLS1608-82NJ	82 \pm 5%	12	100	0.6	0.95	300	0.8 \pm 0.15
HBLS1608-R10J	100 \pm 5%	12	100	0.6	1.00	300	0.8 \pm 0.15
HBLS1608-R12J	120 \pm 5%	8	50	0.5	1.20	300	0.8 \pm 0.15
HBLS1608-R15J	150 \pm 5%	8	50	0.5	1.20	300	0.8 \pm 0.15
HBLS1608-R18J	180 \pm 5%	8	50	0.4	1.30	300	0.8 \pm 0.15
HBLS1608-R22J	220 \pm 5%	8	50	0.4	1.50	300	0.8 \pm 0.15

* TEST EQUIPMENT: E4991A IMPEDANCE ANALYZER

量測儀器: E4991A 阻抗分析儀

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MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBSL series for high frequency

HBSL 系列適用於高頻率產品

Electrical characteristics 電氣特性



Shape(尺寸): 2012(0805)

Part Number 產品料號	Inductance 感值 (nH) Tolerance 公差	Q Min 品質 係數	Test Frequency (MHz) 測試頻率	Self-resonant Frequency (GHz) Min 共振頻率	DC Resistance (Ω) Max 直流電阻	Rated Current (mA) Max 額定電流	Thickness (mm) 厚度
HBLS2012-1N0S	1.0±0.3nH	10	100	10	0.10	300	0.85±0.2
HBLS2012-1N2S	1.2±0.3nH	10	100	10	0.10	300	0.85±0.2
HBLS2012-1N5S	1.5±0.3nH	10	100	4.0	0.10	300	0.85±0.2
HBLS2012-1N8S	1.8±0.3nH	10	100	4.0	0.10	300	0.85±0.2
HBLS2012-2N2S	2.2±0.3nH	10	100	4.0	0.10	300	0.85±0.2
HBLS2012-2N7S	2.7±0.3nH	12	100	4.0	0.10	300	0.85±0.2
HBLS2012-3N3S	3.3±0.3nH	12	100	4.0	0.13	300	0.85±0.2
HBLS2012-3N9S	3.9±0.3nH	12	100	4.0	0.15	300	0.85±0.2
HBLS2012-4N7S	4.7±0.3nH	12	100	3.5	0.20	300	0.85±0.2
HBLS2012-5N6S	5.6±0.3nH	15	100	3.2	0.23	300	0.85±0.2
HBLS2012-6N8J	6.8±5%	15	100	2.8	0.25	300	0.85±0.2
HBLS2012-8N2J	8.2±5%	15	100	2.4	0.28	300	0.85±0.2
HBLS2012-10NJ	10±5%	15	100	2.1	0.30	300	0.85±0.2
HBLS2012-12NJ	12±5%	15	100	1.9	0.35	300	0.85±0.2
HBLS2012-15NJ	15±5%	15	100	1.6	0.40	300	0.85±0.2
HBLS2012-18NJ	18±5%	15	100	1.5	0.45	300	0.85±0.2
HBLS2012-22NJ	22±5%	18	100	1.4	0.50	300	0.85±0.2
HBLS2012-27NJ	27±5%	18	100	1.3	0.55	300	0.85±0.2
HBLS2012-33NJ	33±5%	18	100	1.2	0.60	300	0.85±0.2
HBLS2012-39NJ	39±5%	18	100	1.0	0.65	300	0.85±0.2
HBLS2012-47NJ	47±5%	18	100	0.9	0.70	300	0.85±0.2
HBLS2012-56NJ	56±5%	18	100	0.8	0.75	300	0.85±0.2
HBLS2012-68NJ	68±5%	18	100	0.7	0.80	300	0.85±0.2
HBLS2012-82NJ	82±5%	18	100	0.6	0.90	300	0.85±0.2
HBLS2012-R10J	100±5%	18	100	0.6	0.90	300	0.85±0.2
HBLS2012-R12J	120±5%	13	50	0.5	0.95	300	0.85±0.2
HBLS2012-R15J	150±5%	13	50	0.5	1.00	300	1.25±0.2
HBLS2012-R18J	180±5%	13	50	0.4	1.10	300	1.25±0.2
HBLS2012-R22J	220±5%	12	50	0.35	1.20	300	1.25±0.2
HBLS2012-R27J	270±5%	12	50	0.3	1.30	300	1.25±0.2
HBLS2012-R33J	330±5%	12	50	0.25	1.40	300	1.25±0.2
HBLS2012-R39J	390±5%	10	50	0.25	1.40	300	1.25±0.2
HBLS2012-R47J RDC4.0	470±5%	10	50	0.20	4.00	200	1.25±0.2
HBLS2012-R56J	560±5%	10	25	0.18	5.00	50	1.25±0.2
HBLS2012-R68J	680±5%	10	25	0.16	5.50	50	1.25±0.2

* TEST EQUIPMENT: E4991A IMPEDANCE ANALYZER

量測儀器 : E4991A 阻抗分析儀

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MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBSL series for high frequency

HBSL 列適用於高頻率產品

Electrical characteristics 電氣特性

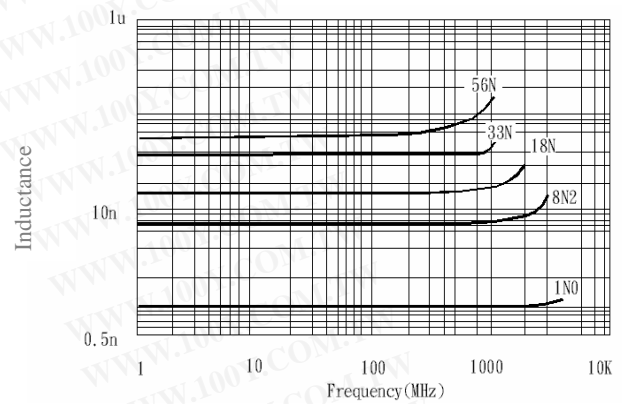
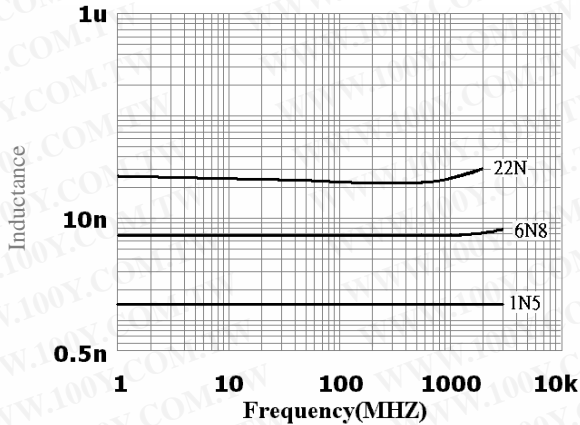


Shape(尺寸): 0603(0201)

Shape(尺寸): 1005(0402)

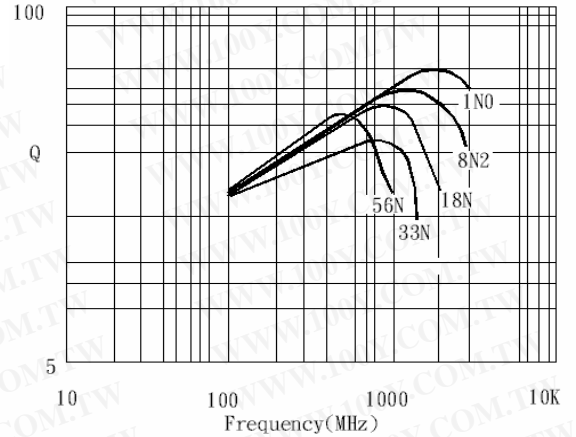
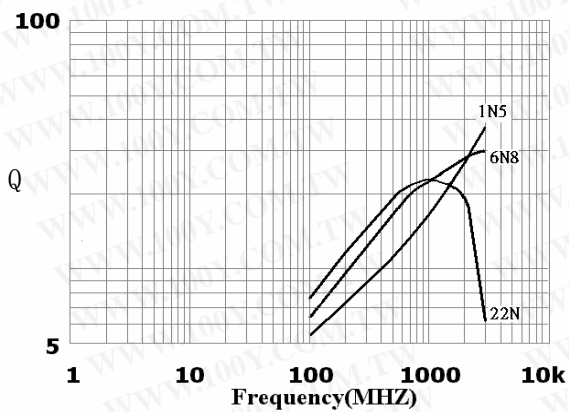
INDUCTANCE vs. FREQUENCY

INDUCTANCE vs. FREQUENCY



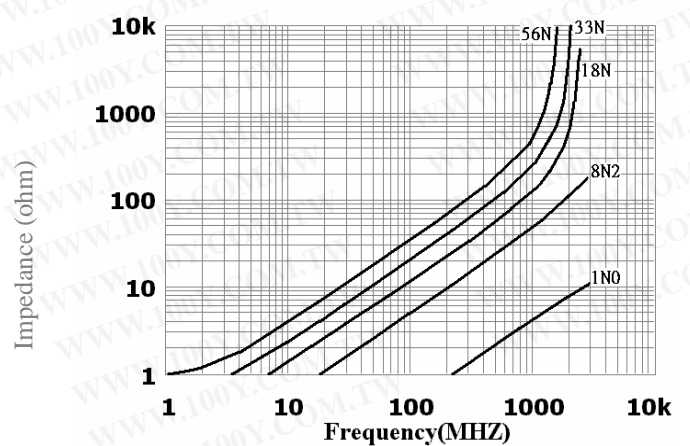
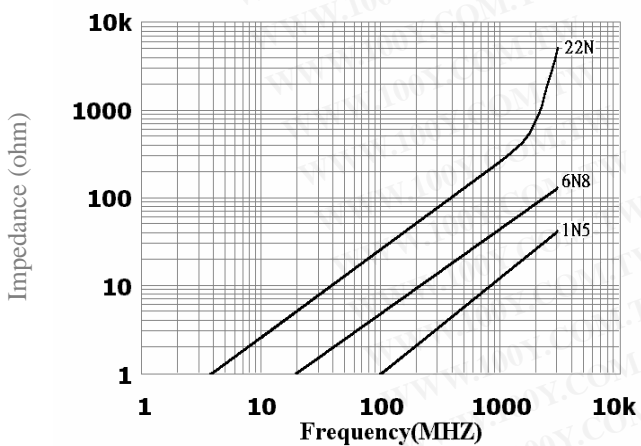
Q vs. FREQUENCY

Q vs. FREQUENCY



IMPEDANCE vs. FREQUENCY

IMPEDANCE vs. FREQUENCY



MULTILAYER CERAMIC CHIP INDUCTORS 積層式陶瓷晶片電感

HBSL series for high frequency

HBSL 列適用於高頻率產品

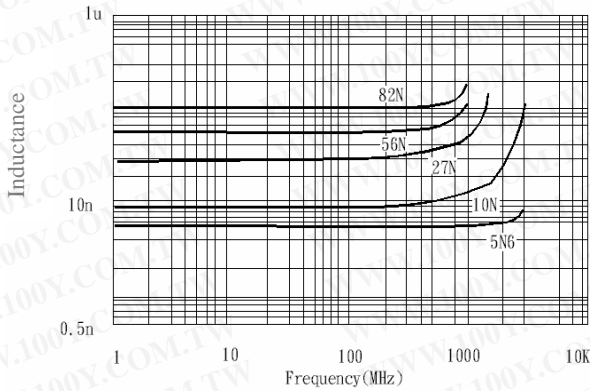
Electrical characteristics 電氣特性



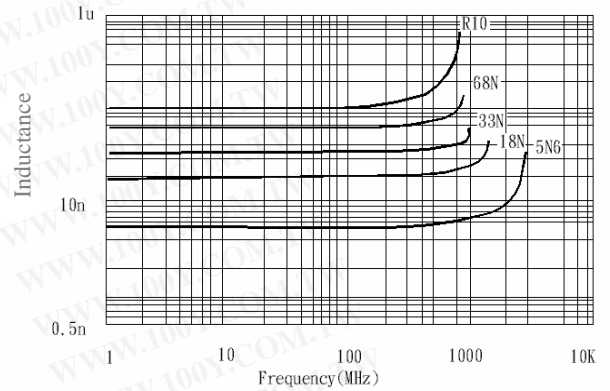
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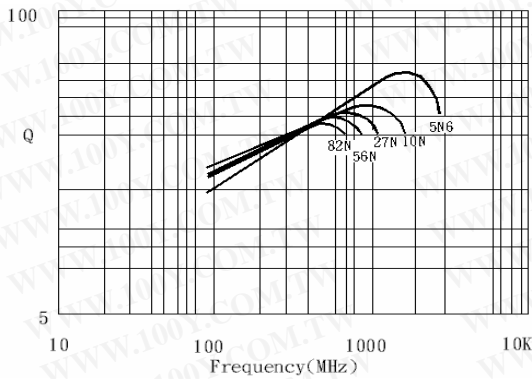
INDUCTANCE vs. FREQUENCY



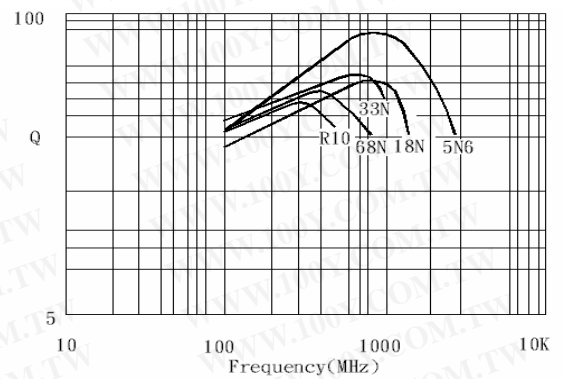
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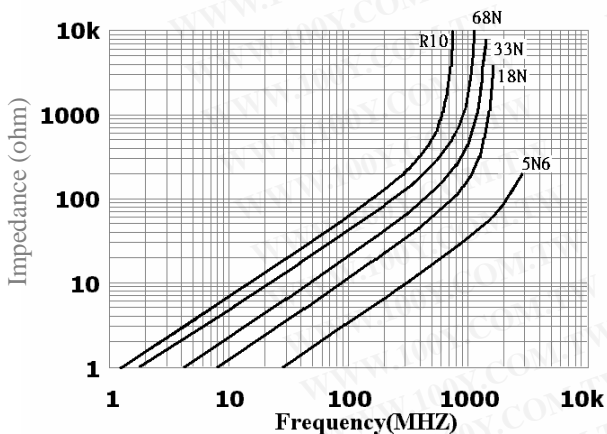
Q vs. FREQUENCY



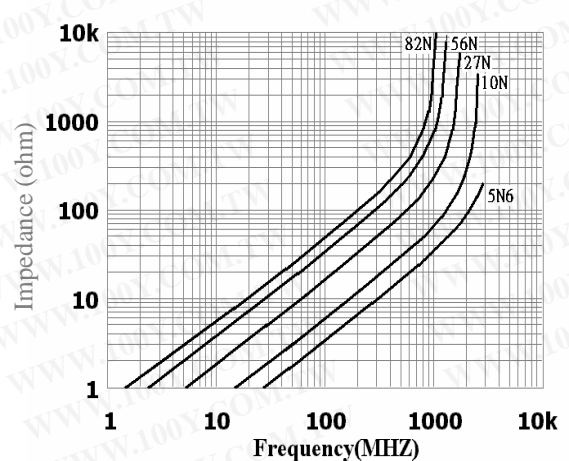
Q vs. FREQUENCY



IMPEDANCE vs. FREQUENCY



IMPEDANCE vs. FREQUENCY



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