

Non-polarity Super-high Frequency Chip Inductors 無極性超高頻晶片電感

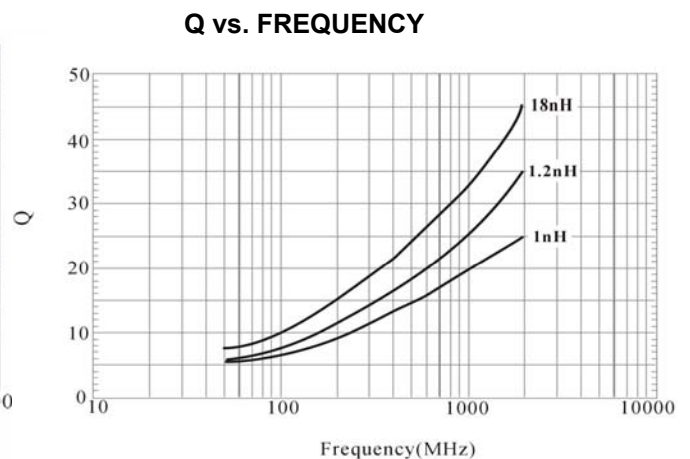
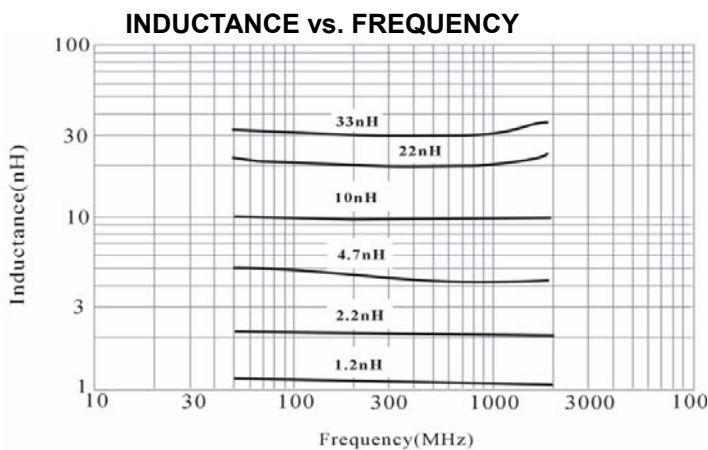
Electrical characteristics 電氣特性

Shape(尺寸): 1005(0402)

Part Number 產品料號	Inductance (電感) nH Tolerance 公差	Q Min	Q Typ.	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
		品質係數 100MHz	品質係數 1GHz			
HBKS1005-1N0S	1.0±0.3n H	3	13	12	0.10	500
HBKS1005-1N2S	1.2±0.3n H	3	13	11	0.15	500
HBKS1005-1N5S	1.5±0.3n H	4	14	9.5	0.16	500
HBKS1005-1N8S	1.8±0.3n H	4	14	8.5	0.20	500
HBKS1005-2N2S	2.2±0.3n H	4	14	8.0	0.21	500
HBKS1005-2N7S	2.7±0.3n H	4	14	7.5	0.23	500
HBKS1005-3N3S	3.3±0.3n H	5	15	7.0	0.25	400
HBKS1005-3N9S	3.9±0.3n H	5	15	6.5	0.28	400
HBKS1005-4N7S	4.7±0.3n H	5	17	6.0	0.32	400
HBKS1005-5N6S	5.6±0.3n H	5	17	5.7	0.35	400
HBKS1005-6N8J	6.8±5%	5	17	5.5	0.38	400
HBKS1005-8N2J	8.2±5%	5	18	5.0	0.42	350
HBKS1005-10NJ	10±5%	5	18	4.7	0.45	350
HBKS1005-12NJ	12±5%	5	18	4.3	0.50	350
HBKS1005-15NJ	15±5%	5	18	4	0.55	300
HBKS1005-18NJ	18±5%	5	18	4	0.65	250
HBKS1005-22NJ	22±5%	5	18	3.5	0.75	200
HBKS1005-27NJ	27±5%	5	18	3.0	0.95	200
HBKS1005-33NJ	33±5%	5	18	2.5	1.1	200
HBKS1005-39NJ	39±5%	4	16	2.0	1.2	200
HBKS1005-47NJ	47±5%	4	16	1.8	1.3	200
HBKS1005-56NJ	56±5%	4	16	1.5	1.4	200
HBKS1005-68NJ	68±5%	4	15	1.4	1.6	150
HBKS1005-82NJ	82±5%	4	14	1.3	1.8	150
HBKS1005-R10J	100±5%	4	14	1.1	2.2	100

* TEST EQUIPMENT: E4991A IMPEDANCE ANALYZER 量測儀器 : E4991A 阻抗分析儀

TYPICAL ELECTRICAL CHARACTERISTICS 典型之電氣特性



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Electrical characteristics 電氣特性

Shape(尺寸): 1608(0603)

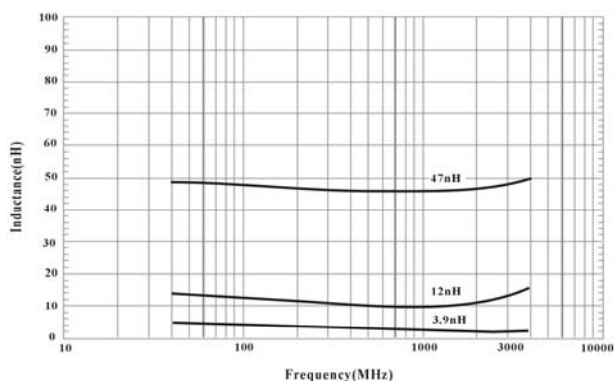
Part Number 產品料號	Inductance (電感) nH Tolerance 公差	Q Min	Q Typ.	Self-resonant Frequency (GHz) Min 共振頻率	DC Resistance Ω (MAX) 直流電阻	Rated Current mA (MAX) 額定電流
		品質係數 100MHz	品質係數 1GHz			
HBKS1608-1N0S	1.0±0.3n H	5	20	10	0.10	500
HBKS1608-1N2S	1.2±0.3n H	5	20	9.0	0.15	500
HBKS1608-1N5S	1.5±0.3n H	5	20	8.5	0.16	500
HBKS1608-1N8S	1.8±0.3n H	5	21	8.0	0.20	500
HBKS1608-2N2S	2.2±0.3n H	5	21	7.5	0.21	500
HBKS1608-2N7S	2.7±0.3n H	5	22	7.0	0.23	500
HBKS1608-3N3S	3.3±0.3n H	6	22	6.5	0.25	400
HBKS1608-3N9S	3.9±0.3n H	6	22	6.0	0.28	400
HBKS1608-4N7S	4.7±0.3n H	6	22	5.5	0.32	400
HBKS1608-5N6S	5.6±0.3n H	6	22	5.0	0.35	400
HBKS1608-6N8J	6.8± 5%	6	22	4.5	0.38	400
HBKS1608-8N2J	8.2± 5%	6	23	4.3	0.42	350
HBKS1608-10NJ	10± 5%	6	23	4.0	0.45	350
HBKS1608-12NJ	12± 5%	6	23	3.7	0.50	350
HBKS1608-15NJ	15± 5%	7	23	3.5	0.55	300
HBKS1608-18NJ	18± 5%	7	23	3.3	0.65	250
HBKS1608-22NJ	22± 5%	7	23	3.1	0.75	200
HBKS1608-27NJ	27± 5%	7	23	2.8	0.95	200
HBKS1608-33NJ	33± 5%	7	23	2.5	1.1	200
HBKS1608-39NJ	39± 5%	7	21	2.3	1.2	200
HBKS1608-47NJ	47± 5%	7	21	2.0	1.3	200
HBKS1608-56NJ	56± 5%	7	21	1.8	1.4	200
HBKS1608-68NJ	68± 5%	7	20	1.5	1.6	150
HBKS1608-82NJ	82± 5%	7	19	1.2	1.8	150
HBKS1608-R10J	100±5%	7	19	1.0	2.2	100
HBKS1608-R12J	120±5%	7	18	0.8	2.5	50
HBKS1608-R15J	150±5%	7	18	0.6	3.0	50

* TEST EQUIPMENT: E4991A IMPEDANCE ANALYZER

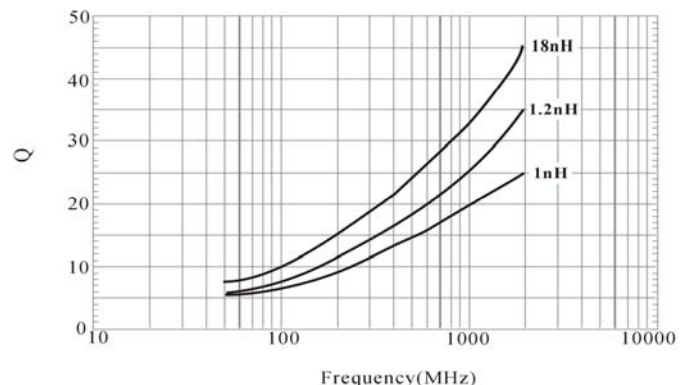
量測儀器 : E4991A 阻抗分析儀

TYPICAL ELECTRICAL CHARACTERISTICS 典型之電氣特性

INDUCTANCE vs. FREQUENCY



Q vs. FREQUENCY



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HBLs compare with HBKS in L, Q vs. Frequency characteristics.

HBLs 與 HBKS 電感及品質係數之頻率特性比較

HBLs TYPE

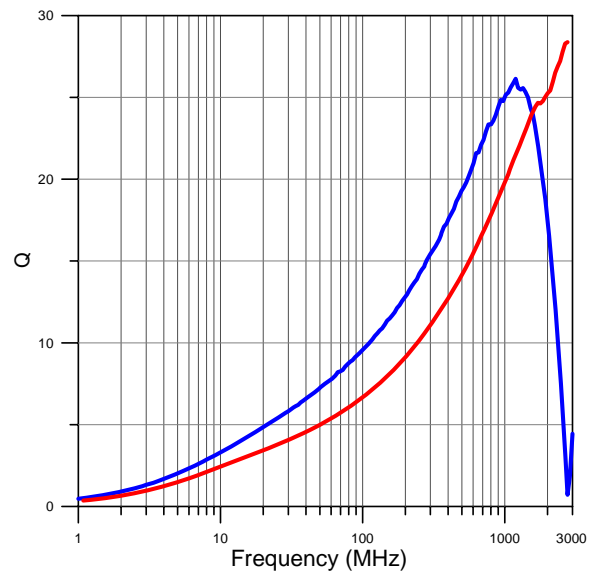
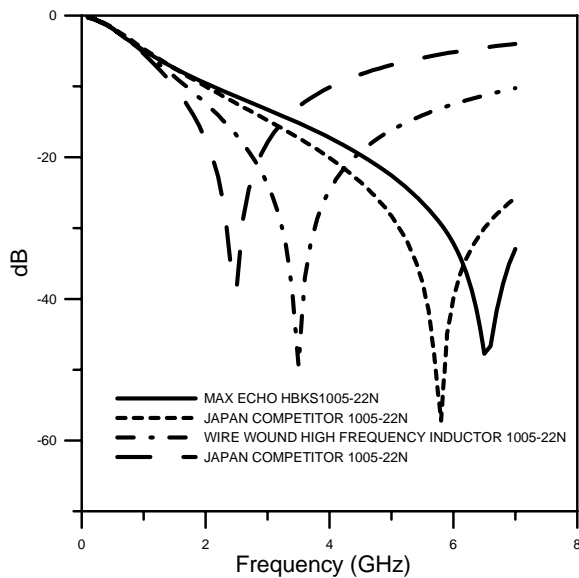
In the traditional vertical structure, the distributed capacitance exists between internal electrodes and between internal and outer electrodes, resulted the Q and SRF is low in GHz frequency.

在舊型的直向迴圈結構中，由於線圈的內部電極之間，以及內部電極與晶片外部電極之間存在著雜散電容，故應用在 GHz 以上的高頻時自振頻率較低。

HBKS TYPE

When the internal circuit is transverse structure, the distributed capacitance is reduced. The difference of this design is the SRF will be increased.

當內部結構改成橫向迴圈結構時，雜散電容減少，可提高自振頻率，增加工作頻率範圍。



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