



叠层片式陶瓷电感-GDHI 系列

Laminated ceramic inductor-GDHI Series

一 特征 FEATURES

- 基体采用低介电常数的陶瓷介质材料;

The substrate is ceramic dielectric material with low dielectric constant;

- 针对 100MHz 以上高频电路设计;

The design of high frequency circuit above 100MHz;

- 自谐频率和 Q 值较高; The self-harmonic frequency and Q value are higher;

- 良好的可焊接性和耐焊接性, 无铅符合 ROHS;

Good weldability and weldability, lead free compliance with ROHS;

- 体积小, 适合高密度贴装;

Small size, suitable for high density mounting;

二 用途 APPLICATIONS

通讯产品的射频模块; Radio frequency module of communication product;

GSM、CDMA、PDC 手机; GSM,CDMA,PDC cell phone;

其它高频线路应用中; Other high-frequency line applications;

三 产品型号 PRODUCT IDENTIFICATION

GDHI 1005 C 1N2 S T F

① ② ③ ④ ⑤ ⑥ ⑦

①

分类 Type	
GDHI	叠层片式高频电感 Laminated ceramic inductor

③

材料代号 Material code
C(陶瓷材料) (ceramic materials)

②

外形尺寸 Outline dimension	L*W (mm)
0603[0201]	0.6*0.3
1005[0402]	1.0*0.5
1608[0603]	1.6*0.8
2012[0805]	2.0*1.25

④

电感量 inductor	
Example	Nominal Value
4N7	4.7 nH
47N	47 nH
R47	470 nH

⑥

包装 Pack	
T	编带 Braid



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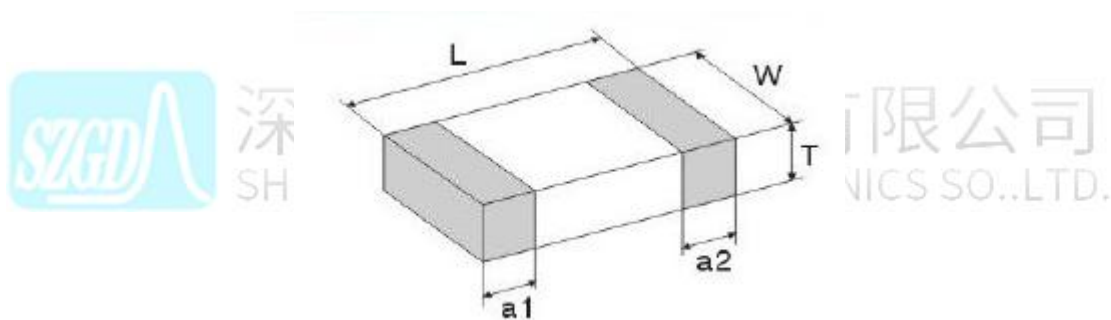
⑤

电感公差 Inductance tolerance	
S	$\pm 0.3\text{nH}$
D	$\pm 0.5\text{nH}$
J	$\pm 5\%$
K	$\pm 10\%$

⑦

无有害物质产品 Products free of harmful substances
F

四 外观尺寸 Extrenal Dimension



Unit: mm[inch]

型号	L 长	W 宽	T 高	a1、a2
0603[0201]	0.60 ± 0.05	0.30 ± 0.05	0.30 ± 0.05	0.10 ± 0.20
1005[0402]	1.00 ± 0.15	0.50 ± 0.15	0.50 ± 0.15	0.25 ± 0.10
1608[0603]	1.60 ± 0.15	0.80 ± 0.15	0.80 ± 0.15	0.30 ± 0.20
2012[0805]	2.00 ± 0.20	1.25 ± 0.20	0.80 ± 0.20	0.40 ± 0.30



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五 规格特性 SPECIFICATIONS

GDHI0603 系列 GDHI0603 Series

Part Number 型号	Ls (nH)	Inductance tolerance code 电感量 偏差代码	The L test frequency L 值测试频率 (MHz)	Q Min @100 MHz	SRF (MHz) Min.	DCR (Ω) Max.	Ir (mA)
GDHI0603C1N0□TF	1.0	S,D	100	5.0	>6000	0.15	550
GDHI0603C1N1□TF	1.1	S,D	100	5.0	>6000	0.15	550
GDHI0603C1N2□TF	1.2	S,D	100	5.0	>6000	0.16	550
GDHI0603C1N3□TF	1.3	S,D	100	5.0	>6000	0.16	550
GDHI0603C1N5□TF	1.5	S,D	100	5.0	>6000	0.20	500
GDHI0603C1N6□TF	1.6	S,D	100	5.0	>6000	0.22	440
GDHI0603C1N8□TF	1.8	S,D	100	5.0	>6000	0.25	420
GDHI0603C2N0□TF	2.0	S,D	100	5.0	>6000	0.25	400
GDHI0603C2N2□TF	2.2	S,D	100	5.0	>6000	0.26	400
GDHI0603C2N4□TF	2.4	S,D	100	5.0	>6000	0.25	380
GDHI0603C2N7□TF	2.7	S,D	100	5.0	>6000	0.30	350
GDHI0603C3N0□TF	3.0	S,D	100	5.0	6000	0.30	300
GDHI0603C3N3□TF	3.3	S,D	100	5.0	5800	0.30	300
GDHI0603C3N6□TF	3.6	S,D	100	5.0	5500	0.35	300
GDHI0603 C3N9□TF	3.9	S,D	100	5.0	5200	0.40	280
GDHI0603 C4N3□TF	4.3	S,D	100	5.0	4800	0.40	280
GDHI0603 C4N7□TF	4.7	S,D	100	5.0	4600	0.45	250
GDHI0603 C5N1□TF	5.1	S,D	100	5.0	4500	0.45	250
GDHI0603 C5N6□TF	5.6	S,D	100	5.0	4200	0.48	250
GDHI0603 C6N2□TF	6.2	S,D	100	5.0	4000	0.50	250
GDHI0603C6N8□TF	6.8	J,K	100	5.0	3800	0.55	240
GDHI0603C7N5□TF	7.5	J,K	100	5.0	3500	0.65	220
GDHI0603C8N2□TF	8.2	J,K	100	5.0	3300	0.70	200
GDHI0603C9N1□TF	9.1	J,K	100	5.0	3200	0.80	180
GDHI0603C10N□TF	10	J,K	100	5.0	3000	0.85	180
GDHI0603C12N□TF	12	J,K	100	6.0	2500	1.00	180
GDHI0603C15N□TF	15	J,K	100	6.0	2200	1.30	160
GDHI0603C18N□TF	18	J,K	100	6.0	2000	1.40	150
GDHI0603C22N□TF	22	J,K	100	6.0	1800	1.50	140
GDHI0603C27N□TF	27	J,K	100	6.0	1700	1.60	120
GDHI0603C33N□TF	33	J,K	100	6.0	1600	2.20	80
GDHI0603C39N□TF	39	J,K	100	6.0	1500	2.30	80
GDHI0603C47N□TF	47	J,K	100	6.0	1400	2.60	80
GDHI0603C56N□TF	56	J,K	100	6.0	1200	3.00	50
GDHI0603C68N□TF	68	J,K	100	6.0	1200	3.20	50



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GDHI0603C82N□TF	82	J,K	100	6.0	1000	3.50	50
GDHI0603CR10□TF	100	J,K	100	6.0	1000	4.30	50

GDHI1005 系列 GDHI1005 Series

Part Number 型号	Ls (nH)	Inductance tolerance code 电感量偏差 代码	The L test frequency L 值测试频率 (MHz)	Q Min @100 MHz	SRF (MHz) Min.	DCR (Ω) Max.	Ir (mA)
GDHI1005C1N0□TF	1.0	S,D	100	9	10000	0.10	400
GDHI1005C1N1□TF	1.0	S,D	100	9	10000	0.10	400
GDHI1005C1N2□TF	1.2	S,D	100	9	10000	0.10	400
GDHI1005C1N3□TF	1.2	S,D	100	9	10000	0.10	400
GDHI1005C1N5□TF	1.5	S,D	100	9	6000	0.10	300
GDHI1005C1N6□TF	1.2	S,D	100	9	6000	0.10	300
GDHI1005C1N8□TF	1.2	S,D	100	9	6000	0.10	300
GDHI1005C2N0□TF	1.8	S,D	100	9	6000	0.20	300
GDHI1005C2N2□TF	2.2	S,D	100	9	6000	0.20	300
GDHI1005C2N4□TF	2.4	S,D	100	9	6000	0.20	300
GDHI1005C2N7□TF	2.7	S,D	100	9	6000	0.20	300
GDHI1005C3N0□TF	3.0	S,D	100	9	6000	0.20	300
GDHI1005C3N3□TF	3.3	S,D	100	9	6000	0.20	300
GDHI1005C3N6□TF	1.2	S,D	100	9	4000	0.20	300
GDHI1005C3N9□TF	3.9	S,D	100	9	4000	0.20	300
GDHI1005C4N3□TF	4.3	S,D	100	9	4000	0.20	300
GDHI1005C4N7□TF	4.7	S,D	100	9	4000	0.20	300
GDHI1005C5N1□TF	5.1	S,D	100	9	4000	0.30	300
GDHI1005C5N6□TF	5.6	S,D	100	9	4000	0.30	300
GDHI1005C6N2□TF	6.2	J,K	100	9	3900	0.30	300
GDHI1005C6N8□TF	6.8	J,K	100	9	3900	0.30	300
GDHI1005C7N5□TF	7.5	J,K	100	9	3700	0.40	300
GDHI1005C8N2□TF	8.2	J,K	100	9	3600	0.40	300
GDHI1005C9N1□TF	9.1	J,K	100	9	3400	0.40	300
GDHI1005C10N□TF	10	J,K	100	9	3200	0.40	300
GDHI1005C12N□TF	12	J,K	100	9	2700	0.50	300
GDHI1005C15N□TF	15	J,K	100	9	2300	0.50	300
GDHI1005C18N□TF	18	J,K	100	9	2100	0.60	300
GDHI1005C20N□TF	18	J,K	100	9	2000	0.60	300
GDHI1005C22N□TF	22	J,K	100	9	1900	0.60	300
GDHI1005C27N□TF	27	J,K	100	9	1600	0.70	300
GDHI1005C33N□TF	33	J,K	100	9	1300	0.80	200



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GDHI1005C39N□TF	39	J,K	100	9	1200	1.00	200
GDHI1005C43N□TF	47	J,K	100	9	1100	1.10	200
GDHI1005C47N□TF	47	J,K	100	9	1000	1.10	200
GDHI1005C56N□TF	56	J,K	100	9	750	1.20	200
GDHI1005C68N□TF	68	J,K	100	9	750	1.40	180
GDHI1005C82N□TF	82	J,K	100	9	750	2.40	150
GDHI1005CR10□TF	100	J,K	100	9	700	2.60	150

GDHI1608 系列 GDHI1608 Series

Part Number 型号	Ls (nH)	Inductance tolerance code 电感量 偏差代码	The L test frequency L 值测试频率 (MHz)	Q Min @100 MHz	SRF (MHz) Min.	DCR (Ω) Max.	Ir (mA)
GDHI1608C1N0□TF	1.0	S,D	100	8	10000	0.05	500
GDHI1608C1N2□TF	1.2	S,D	100	8	10000	0.05	500
GDHI1608C1N5□TF	1.5	S,D	100	8	6000	0.10	500
GDHI1608C1N8□TF	1.8	S,D	100	8	6000	0.10	500
GDHI1608C2N2□TF	2.2	S,D	100	8	6000	0.10	500
GDHI1608C2N7□TF	2.7	S,D	100	10	6000	0.12	500
GDHI1608C3N3□TF	3.3	S,D	100	10	6000	0.15	500
GDHI1608C3N9□TF	3.9	S,D	100	10	6000	0.16	500
GDHI1608C4N7□TF	4.7	S,D	100	10	6000	0.20	500
GDHI1608C5N6□TF	5.6	S,D	100	10	5000	0.25	500
GDHI1608C6N8□TF	6.8	J,K	100	10	5000	0.30	500
GDHI1608C8N2□TF	8.2	J,K	100	10	4500	0.35	500
GDHI1608C10N□TF	10	J,K	100	12	3500	0.40	300
GDHI1608C12N□TF	12	J,K	100	12	3000	0.35	300
GDHI1608C15N□TF	15	J,K	100	12	2300	0.50	300
GDHI1608C18N□TF	18	J,K	100	12	2200	0.55	300
GDHI1608C22N□TF	22	J,K	100	12	2000	0.60	300
GDHI1608C27N□TF	27	J,K	100	12	1700	0.65	300
GDHI1608C33N□TF	33	J,K	100	12	1500	0.70	300
GDHI1608C39N□TF	39	J,K	100	12	1400	0.70	300
GDHI1608C47N□TF	47	J,K	100	12	1200	0.70	300
GDHI1608C56N□TF	56	J,K	100	12	1100	0.75	300
GDHI1608C68N□TF	68	J,K	100	12	900	0.85	300
GDHI1608C82N□TF	82	J,K	100	12	800	1.00	300
GDHI1608CR10□TF	100	J,K	100	12	700	1.20	300
GDHI1608CR12□TF	120	J,K	50	8	600	1.40	200
GDHI1608CR15□TF	150	J,K	50	8	500	1.60	200
GDHI1608CR18□TF	180	J,K	50	8	400	1.90	200
GDHI1608CR22□TF	220	J,K	50	8	350	2.40	200



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GDHI1608CR27□TF	270	J,K	50	8	350	2.60	150
GDHI1608CR33□TF	330	J,K	50	8	350	2.80	150

GDHI2012 系列 GDHI2012 Series

Part Number 型号	Ls (nH)	Inductance tolerance code 电感量 偏差代码	The L test frequency L 值测试频率 (MHz)	Q Min @100 MHz	SRF (MHz) Min.	DCR (Ω) Max.	Ir (mA)
GDHI2012C1N5□TF	1.5	S,D	100	10	6000	0.10	500
GDHI2012C1N8□TF	1.8	S,D	100	10	6000	0.10	500
GDHI2012C2N2□TF	2.2	S,D	100	10	6000	0.10	500
GDHI2012C2N7□TF	2.7	S,D	100	12	5500	0.10	500
GDHI2012C3N3□TF	3.3	S,D	100	12	5000	0.13	500
GDHI2012C3N9□TF	3.9	S,D	100	12	4500	0.15	500
GDHI2012C4N7□TF	4.7	S,D	100	12	4000	0.20	500
GDHI2012C5N6□TF	5.6	S,D	100	15	3500	0.23	500
GDHI2012C6N8□TF	6.8	J,K	100	15	3000	0.25	500
GDHI2012C8N2□TF	8.2	J,K	100	15	2500	0.28	500
GDHI2012C10N□TF	10	J,K	100	15	2200	0.30	500
GDHI2012C12N□TF	12	J,K	100	15	2000	0.35	500
GDHI2012C15N□TF	15	J,K	100	15	1800	0.40	500
GDHI2012C18N□TF	18	J,K	100	15	1600	0.45	300
GDHI2012C22N□TF	22	J,K	100	15	1500	0.50	300
GDHI2012C27N□TF	27	J,K	100	15	1400	0.55	300
GDHI2012C33N□TF	33	J,K	100	15	1300	0.60	300
GDHI2012C39N□TF	39	J,K	100	15	1100	0.65	300
GDHI2012C47N□TF	47	J,K	100	15	1000	0.70	300
GDHI2012C56N□TF	56	J,K	100	15	900	0.75	300
GDHI2012C68N□TF	68	J,K	100	15	850	0.80	300
GDHI2012C82N□TF	82	J,K	100	15	800	0.90	300
GDHI2012CR10□TF	100	J,K	100	15	700	0.90	300
GDHI2012CR12□TF	120	J,K	100	13	600	0.95	300
GDHI2012CR15□TF	150	J,K	50	13	550	1.20	300
GDHI2012CR18□TF	180	J,K	50	13	500	1.30	300
GDHI2012CR22□TF	220	J,K	50	12	400	1.50	300
GDHI2012CR27□TF	270	J,K	50	12	350	1.80	300
GDHI2012CR33□TF	330	J,K	50	12	300	2.00	300
GDHI2012CR39□TF	390	J,K	50	10	250	2.00	300
GDHI2012CR47□TF	470	J,K	50	10	200	2.00	300

※□:请指定电感偏差代码(S =±0.3 D =±0.5 J =±5%,k =±10%)。

Please specify the inductance deviation code (S = ±0.3D = ±0.5J = ±5J = ±10%).



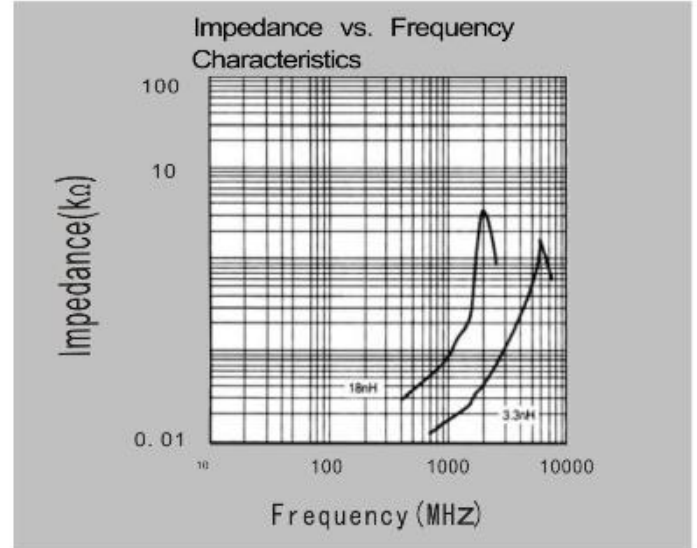
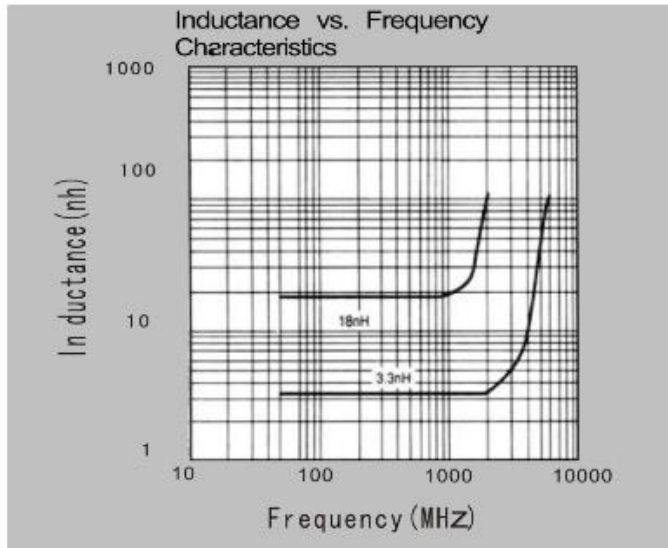
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六 电气特性 TYPICAL ELECTRICAL CHARACTERISTICS

GDHI 0603(0201)

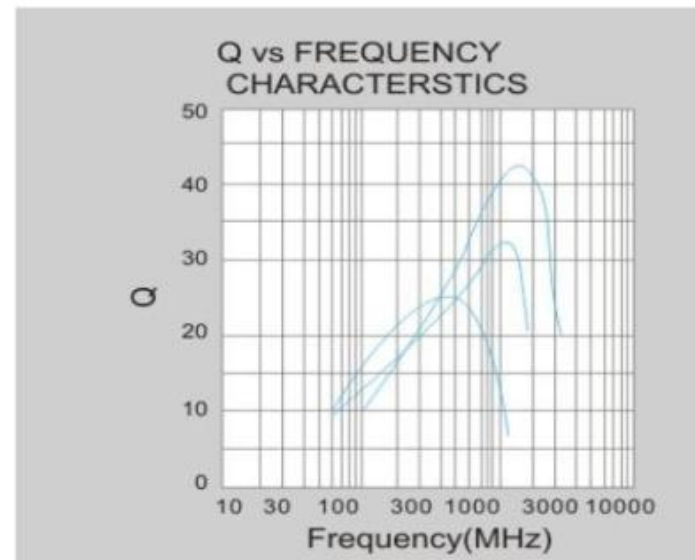
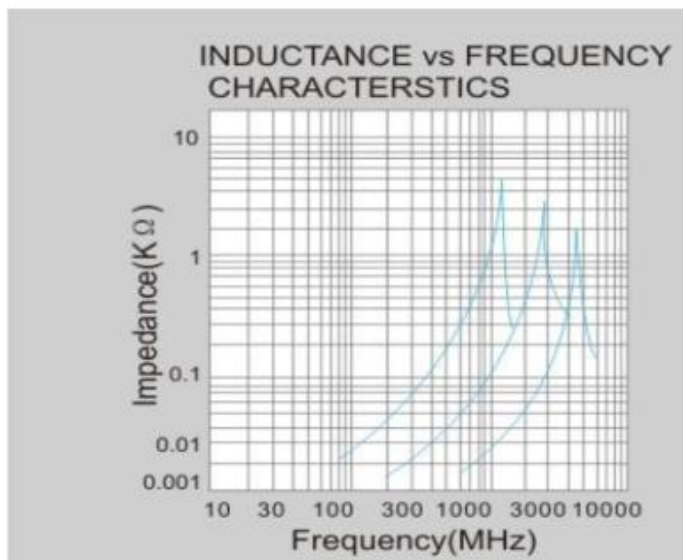
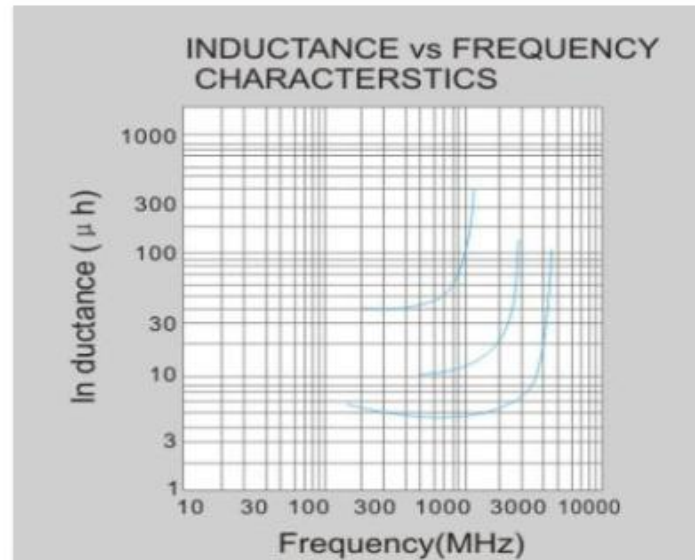
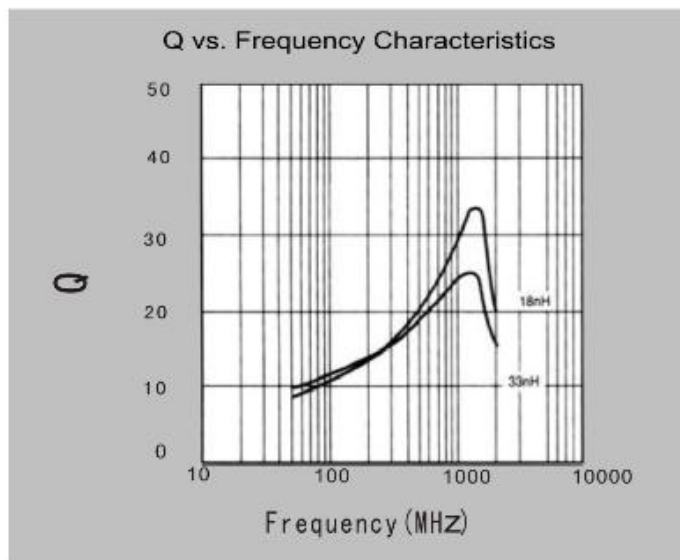


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GDHI 1005(0402)

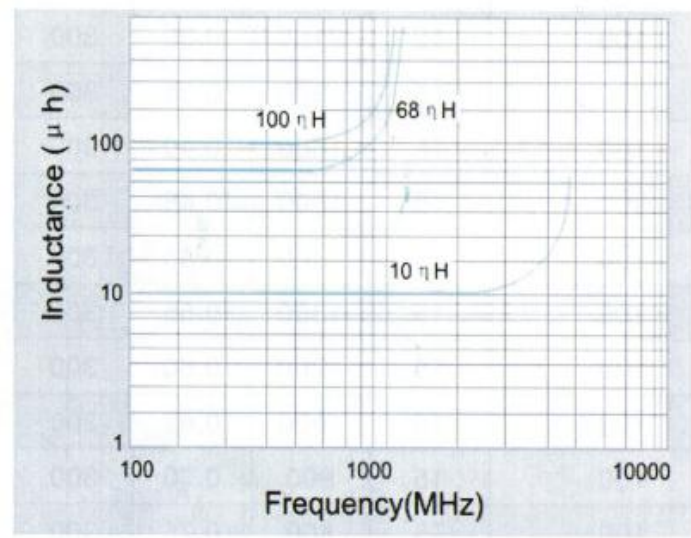
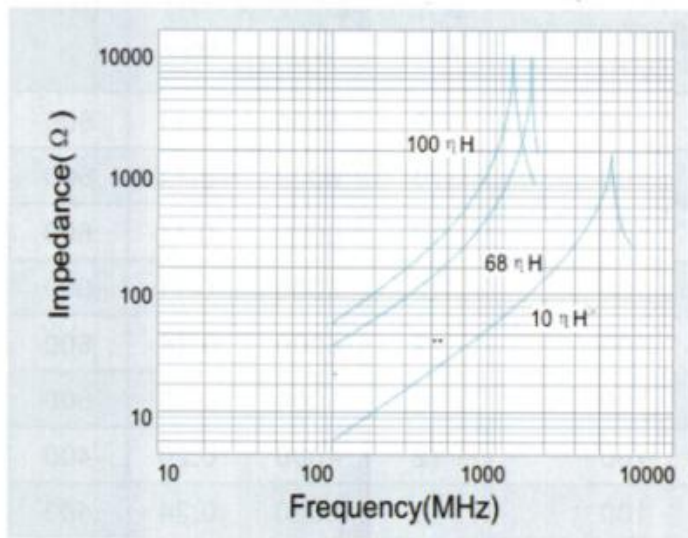


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GDHI 1608(0603)



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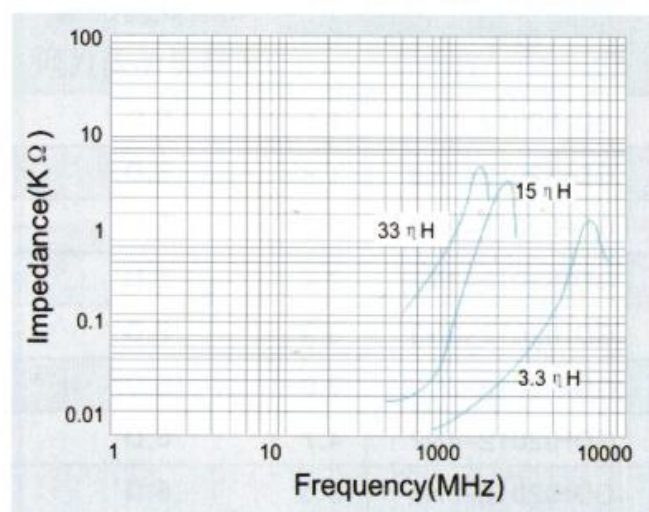
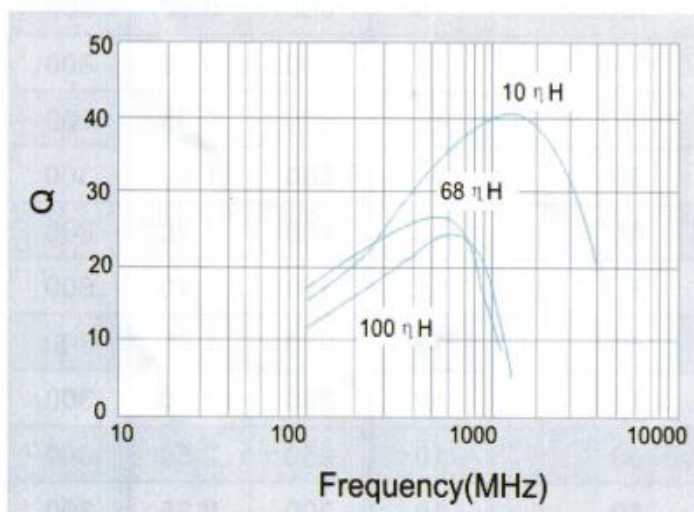


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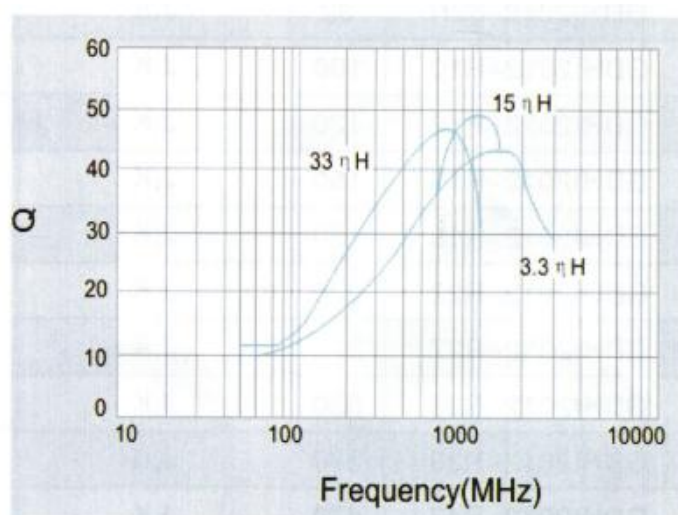
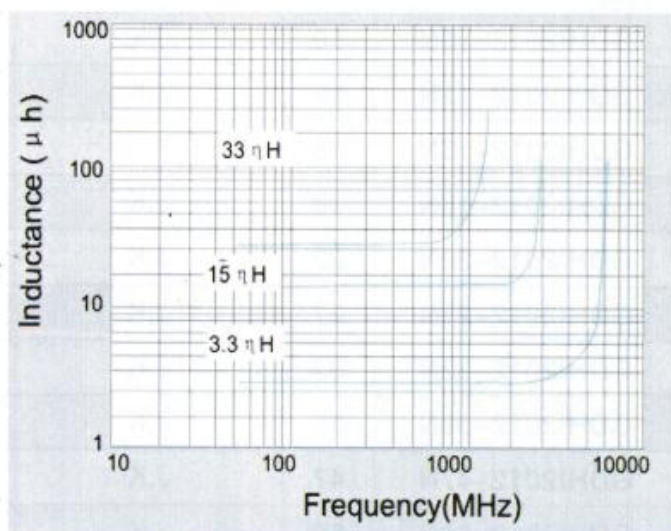
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GDHI 2012(0805)



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