

请务必在使用敝公司产品之前阅读。

⚠ 注意

■ 本产品目录中所记载的内容为2017年10月之内容。因改良等原因,可能会不经预告而变更记载内容,所以请务必在使用前先确认最新的产品信息。未按照本产品目录中所记载的内容或交货规格说明书使用敝公司产品的,即便其致使使用设备发生损害、瑕疵等时,敝公司也不承担任何责任,敬请悉知。

■ 就规格相关的详细内容,敝公司备有交货规格说明书,详情请向敝公司咨询。

■ 使用敝公司产品时,请务必事先安装到设备之后,在实际使用的环境下进行评估和确认。

■ 本产品目录中所记载的产品可使用于一般电子设备[音像设备、办公自动化设备、家电产品、办公设备、信息/通讯设备(手机、电脑等)]以及医疗设备(国际(IMDRF)第一类、第二类)。因此,若考虑将本产品目录中所记载的产品使用于可能会直接危及生命或身体的设备[运输用设备(汽车驱动控制设备、火车控制设备、船舶控制设备等)、交通信号设备、防灾设备、医疗设备(国际(IMDRF)第三类)、高公共性信息通信设备(电话交换机以及电话、无线、广播电视等基站)]等时,请务必事先向敝公司咨询。

另外,请勿将敝公司产品使用于对安全性和可靠性要求较高的设备(航天设备、航空设备*、医疗设备(国际(IMDRF)第四类)、原子能控制设备、海底设备、军事设备等)。

※ 注释:仅限于对航空设备的安全运行不产生直接干扰的设备[机内娱乐设备、机内照明设备、电动座椅、餐饮设备等],在满足敝公司另行指定的相关条件时,亦可将敝公司产品用于以上用途。在贵公司考虑将敝公司的产品用于以上用途时,请务必事先向敝公司咨询相关的信息。

且即便属于一般电子设备,使用于对安全性和可靠性要求较高的设备、电路上时,敝公司建议进行充分的安全评估,并根据需要,在设计时追加保护电路等。

未经敝公司的事先书面同意,把本产品目录中所记载的产品使用于前述需要向敝公司咨询的设备或敝公司禁止使用的设备,从而给客户或第三方造成损害的,敝公司不承担任何责任,敬请悉知。

■ 本产品目录中所记载的信息是用于说明相关产品的典型操作以及相关应用。此类信息的使用不代表对于敝公司以及第三方的知识产权以及其他权利的使用许可或是不侵权保证。

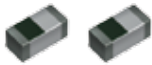
■ 敝公司产品的保证范围仅限于交付的敝公司产品单品,就敝公司产品的故障或瑕疵所诱发的损害,敝公司不承担任何责任,敬请悉知。但是,以书面形式另行签署了交易基本合同书,品质保证协定书等时,敝公司将根据该合同等的条件提供保证。

■ 本产品目录中所记载的内容适用于从敝公司营业所、销售子公司、销售代理店(即“正规销售渠道”)购买的敝公司产品,并不适用于从上述以外的渠道购买的敝公司产品,敬请悉知。

■ 出口相关注意事项

本产品目录中所记载的部分产品在出口时须事先确认《外汇和对外贸易法》以及美国出口管理的相关法规,并办理相关手续。如有不明之处,请向敝公司咨询。

多层高频片状电感器(HK 系列)



波峰焊※

回流焊

※HK0603, HK1005除外

■ 型号标示法

※使用温度范围: -55~+125°C (HK1608/2125: -40~+85°C)

H	K	△	0	6	0	3	△	1	0	N	J	—	T
①			②					③			④		⑤

△ = 空格

① 类型

代码	类型
HK△	多层高频片状电感器

② 尺寸 (L×W)

代码	外型 (inch)	尺寸 (L×W) [mm]
0603	0603 (0201)	0.6×0.3
1005	1005 (0402)	1.0×0.5
1608	1608 (0603)	1.6×0.8
2125	2125 (0805)	2.0×1.2

③ 标称电感值

代码 (例)	标称电感值 [nH]
3N9	3.9
10N	10.0
R10	100
R12	120

※R=小数点

※N=nH 的小数点

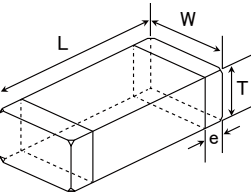
④ 电感量公差

代码	电感量公差
J	±5%
S	±0.3nH

⑤ 包装

代码	包装
—T	卷盘带装

■ 标准外型尺寸 / 标准数量



Type	L	W	T	e	标准数量 [pcs]	
					纸带	压纹带
HK 0603 (0201)	0.6±0.03 (0.024±0.001)	0.3±0.03 (0.012±0.001)	0.3±0.03 (0.012±0.001)	0.15±0.05 (0.006±0.002)	15000	—
HK 1005 (0402)	1.0±0.05 (0.039±0.002)	0.5±0.05 (0.020±0.002)	0.5±0.05 (0.020±0.002)	0.25±0.10 (0.010±0.004)	10000	—
HK 1608 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (0.031±0.006)	0.3±0.2 (0.012±0.008)	4000	—
HK 2125 (0805)	2.0+0.3/-0.1 (0.079+0.012/-0.004)	1.25±0.2 (0.049±0.008)	0.85±0.2 (0.033±0.008)	0.5±0.3 (0.020±0.012)	—	4000
	2.0+0.3/-0.1 (0.079+0.012/-0.004)	1.25±0.2 (0.049±0.008)	1.0+0.2/-0.3 (0.039+0.008/-0.012)	0.5±0.3 (0.020±0.012)	—	3000

单位: mm (inch)

▶ 由于篇幅有限, 本产品目录中只记载了有代表性的产品规格, 若考虑使用弊公司产品时, 请确认交货规格说明书中的详细规格。另外, 有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等), 请参阅弊司网站 (<http://www.ty-top.com/>)。

● HK 0603

型号	EHS	标称电感值 [nH]	电感量公差 ※)	Q值 (min.)	LQ 测试频率 [MHz]	Q (Typical) 频率 [MHz]					自共振频率 [MHz]		直流电阻 DC [Ω]		额定电流 [mA] (max.)	厚度 [mm]
						100	300	500	800	1000	(min.)	(typ.)	(max.)	(typ.)		
HK 0603 1N0□-T	RoHS	1.0	±0.3nH	4	100	6	12	17	22	27	10000	> 13000	0.11	0.088	470	0.30 ±0.03
HK 0603 1N2□-T	RoHS	1.2	±0.3nH	4	100	6	12	16	21	25	10000	> 13000	0.12	0.089	450	0.30 ±0.03
HK 0603 1N5□-T	RoHS	1.5	±0.3nH	4	100	6	12	15	20	23	10000	> 13000	0.13	0.11	430	0.30 ±0.03
HK 0603 1N8□-T	RoHS	1.8	±0.3nH	4	100	6	12	15	20	23	10000	> 13000	0.16	0.12	390	0.30 ±0.03
HK 0603 2N0□-T	RoHS	2.0	±0.3nH	4	100	6	12	15	20	22	10000	> 13000	0.17	0.13	380	0.30 ±0.03
HK 0603 2N2□-T	RoHS	2.2	±0.3nH	4	100	6	12	15	20	22	8800	12500	0.19	0.14	360	0.30 ±0.03
HK 0603 2N4□-T	RoHS	2.4	±0.3nH	4	100	6	12	15	20	22	8300	11700	0.20	0.15	350	0.30 ±0.03
HK 0603 2N7□-T	RoHS	2.7	±0.3nH	5	100	7	12	15	20	22	7700	11000	0.21	0.16	340	0.30 ±0.03
HK 0603 3N0□-T	RoHS	3.0	±0.3nH	5	100	7	12	15	20	22	7200	11000	0.22	0.18	330	0.30 ±0.03
HK 0603 3N3□-T	RoHS	3.3	±0.3nH	5	100	7	12	15	20	22	6700	9600	0.23	0.19	320	0.30 ±0.03
HK 0603 3N6□-T	RoHS	3.6	±0.3nH	5	100	7	12	15	20	22	6400	9100	0.25	0.20	310	0.30 ±0.03
HK 0603 3N9□-T	RoHS	3.9	±0.3nH	5	100	7	12	15	20	22	6000	8600	0.27	0.20	300	0.30 ±0.03
HK 0603 4N3□-T	RoHS	4.3	±0.3nH	5	100	7	12	15	19	21	5700	8100	0.30	0.22	280	0.30 ±0.03
HK 0603 4N7□-T	RoHS	4.7	±0.3nH	5	100	7	12	15	19	21	5300	7600	0.30	0.24	280	0.30 ±0.03
HK 0603 5N1□-T	RoHS	5.1	±0.3nH	5	100	7	12	15	19	21	5000	7100	0.33	0.26	270	0.30 ±0.03
HK 0603 5N6□-T	RoHS	5.6	±0.3nH	5	100	7	12	15	19	21	4600	6600	0.36	0.27	260	0.30 ±0.03
HK 0603 6N2□-T	RoHS	6.2	±0.3nH	5	100	7	11	14	18	20	4200	6100	0.38	0.29	250	0.30 ±0.03
HK 0603 6N8□-T	RoHS	6.8	±5%	5	100	7	11	14	18	20	3900	5600	0.39	0.30	250	0.30 ±0.03
HK 0603 7N5□-T	RoHS	7.5	±5%	5	100	7	11	14	18	19	3600	5300	0.41	0.34	240	0.30 ±0.03
HK 0603 8N2□-T	RoHS	8.2	±5%	5	100	7	11	14	18	19	3400	4900	0.45	0.34	230	0.30 ±0.03
HK 0603 9N1□-T	RoHS	9.1	±5%	5	100	7	11	14	17	18	3200	4600	0.48	0.40	220	0.30 ±0.03
HK 0603 10N□-T	RoHS	10	±5%	5	100	7	11	14	17	18	2900	4200	0.51	0.41	220	0.30 ±0.03
HK 0603 12N□-T	RoHS	12	±5%	5	100	7	11	14	17	18	2700	3800	0.68	0.45	190	0.30 ±0.03
HK 0603 15N□-T	RoHS	15	±5%	5	100	7	11	13	16	17	2300	3300	0.71	0.50	180	0.30 ±0.03
HK 0603 18N□-T	RoHS	18	±5%	5	100	7	11	13	16	17	2100	3000	0.81	0.57	170	0.30 ±0.03
HK 0603 22N□-T	RoHS	22	±5%	5	100	7	11	13	15	16	1800	2600	1.00	0.71	150	0.30 ±0.03
HK 0603 27N□-T	RoHS	27	±5%	4	100	6	10	12	14	15	1800	2600	1.35	1.11	120	0.30 ±0.03
HK 0603 33N□-T	RoHS	33	±5%	4	100	6	10	12	14	14	1700	2400	1.47	1.33	110	0.30 ±0.03
HK 0603 39N□-T	RoHS	39	±5%	4	100	6	10	12	13	12	1500	2100	1.72	1.51	100	0.30 ±0.03
HK 0603 47N□-T	RoHS	47	±5%	4	100	6	10	11	12	11	1300	1800	1.90	1.74	100	0.30 ±0.03
HK 0603 56N□-T	RoHS	56	±5%	4	100	6	10	11	11	10	1100	1600	2.27	1.85	80	0.30 ±0.03
HK 0603 68N□-T	RoHS	68	±5%	4	100	6	10	11	11	10	1100	1500	2.66	2.30	80	0.30 ±0.03
HK 0603 82N□-T	RoHS	82	±5%	4	100	6	10	11	10	8	1000	1400	3.37	2.60	70	0.30 ±0.03
HK 0603 R10□-T	RoHS	100	±5%	4	100	6	9	10	9	6	900	1200	3.74	3.00	60	0.30 ±0.03

※型号中的□中标有电感值公差。上述以外的电感量公差值，请另外咨询。

● HK 1005

型号	EHS	标称电感值 [nH]	电感量公差 ※)	Q值 (min.)	LQ 测试频率 [MHz]	Q (Typical) 频率 [MHz]					自共振频率 [MHz]		直流电阻 DC [Ω]		额定电流 [mA] (max.)	厚度 [mm]
						100	300	500	800	1000	(min.)	(typ.)	(max.)	(typ.)		
HK 1005 1N0□-T	RoHS	1.0	±0.3nH	8	100	11	25	34	43	52	10000	> 13000	0.08	0.04	300	0.50 ±0.05
HK 1005 1N2□-T	RoHS	1.2	±0.3nH	8	100	11	25	35	44	52	10000	> 13000	0.09	0.04	300	0.50 ±0.05
HK 1005 1N5□-T	RoHS	1.5	±0.3nH	8	100	11	24	33	44	48	6000	> 13000	0.10	0.05	300	0.50 ±0.05
HK 1005 1N8□-T	RoHS	1.8	±0.3nH	8	100	11	23	30	36	42	6000	11000	0.12	0.06	300	0.50 ±0.05
HK 1005 2N0□-T	RoHS	2.0	±0.3nH	8	100	11	21	27	34	39	6000	10500	0.12	0.06	300	0.50 ±0.05
HK 1005 2N2□-T	RoHS	2.2	±0.3nH	8	100	10	18	25	31	36	6000	10000	0.13	0.07	300	0.50 ±0.05
HK 1005 2N4□-T	RoHS	2.4	±0.3nH	8	100	10	18	24	31	35	6000	9500	0.13	0.07	300	0.50 ±0.05
HK 1005 2N7□-T	RoHS	2.7	±0.3nH	8	100	10	18	24	31	34	6000	9000	0.13	0.08	300	0.50 ±0.05
HK 1005 3N0□-T	RoHS	3.0	±0.3nH	8	100	10	18	24	31	35	6000	8500	0.16	0.09	300	0.50 ±0.05
HK 1005 3N3□-T	RoHS	3.3	±0.3nH	8	100	10	18	24	31	35	6000	8000	0.16	0.10	300	0.50 ±0.05
HK 1005 3N6□-T	RoHS	3.6	±0.3nH	8	100	10	18	24	31	35	5000	7500	0.20	0.11	300	0.50 ±0.05
HK 1005 3N9□-T	RoHS	3.9	±0.3nH	8	100	10	18	24	31	35	4000	7000	0.21	0.12	300	0.50 ±0.05
HK 1005 4N3□-T	RoHS	4.3	±0.3nH	8	100	10	18	24	31	35	4000	6500	0.20	0.12	300	0.50 ±0.05
HK 1005 4N7□-T	RoHS	4.7	±0.3nH	8	100	10	18	24	31	34	4000	6000	0.21	0.12	300	0.50 ±0.05
HK 1005 5N1□-T	RoHS	5.1	±0.3nH	8	100	10	18	24	31	34	4000	5800	0.21	0.13	300	0.50 ±0.05
HK 1005 5N6□-T	RoHS	5.6	±0.3nH	8	100	10	18	24	30	35	4000	5700	0.23	0.15	300	0.50 ±0.05
HK 1005 6N2□-T	RoHS	6.2	±0.3nH	8	100	10	18	24	30	34	3900	5600	0.25	0.16	300	0.50 ±0.05
HK 1005 6N8□-T	RoHS	6.8	±5%	8	100	10	18	23	29	32	3900	5500	0.25	0.17	300	0.50 ±0.05
HK 1005 7N5□-T	RoHS	7.5	±5%	8	100	10	18	23	29	32	3700	5200	0.25	0.18	300	0.50 ±0.05
HK 1005 8N2□-T	RoHS	8.2	±5%	8	100	10	18	23	29	31	3600	4900	0.28	0.21	300	0.50 ±0.05
HK 1005 9N1□-T	RoHS	9.1	±5%	8	100	10	18	23	29	31	3400	4500	0.30	0.22	300	0.50 ±0.05
HK 1005 10N□-T	RoHS	10	±5%	8	100	10	18	23	29	31	3200	4300	0.31	0.23	300	0.50 ±0.05
HK 1005 12N□-T	RoHS	12	±5%	8	100	11	18	23	29	31	2700	3900	0.40	0.28	300	0.50 ±0.05
HK 1005 15N□-T	RoHS	15	±5%	8	100	11	18	23	28	30	2300	3500	0.46	0.31	300	0.50 ±0.05
HK 1005 18N□-T	RoHS	18	±5%	8	100	11	18	23	28	30	2100	3100	0.55	0.35	300	0.50 ±0.05
HK 1005 22N□-T	RoHS	22	±5%	8	100	11	17	22	26	27	1900	2800	0.60	0.42	300	0.50 ±0.05
HK 1005 27N□-T	RoHS	27	±5%	8	100	11	17	21	25	26	1600	2300	0.70	0.47	300	0.50 ±0.05
HK 1005 33N□-T	RoHS	33	±5%	8	100	11	16	20	23	22	1300	1900	0.80	0.50	200	0.50 ±0.05
HK 1005 39N□-T	RoHS	39	±5%	8	100	11	16	20	23	21	1200	1700	0.90	0.52	200	0.50 ±0.05
HK 1005 47N□-T	RoHS	47	±5%	8	100	11	16	19	21	18	1000	1500	1.00	0.58	200	0.50 ±0.05
HK 1005 56N□-T	RoHS	56	±5%	8	100	11	16	18	18	16	750	1300	1.00	0.61	200	0.50 ±0.05
HK 1005 68N□-T	RoHS	68	±5%	8	100	11	15	17	18	11	750	1200	1.20	0.70	180	0.50 ±0.05
HK 1005 82N□-T	RoHS	82	±5%	8	100	10	14	16	15	6	600	1100	1.30	0.81	150	0.50 ±0.05
HK 1005 R10□-T	RoHS	100	±5%	8	100	10	14	14	12	—	600	1000	1.50	0.94	150	0.50 ±0.05
HK 1005 R12□-T	RoHS	120	±5%	8	100	10	12	10	—	—	600	800	1.60	1.10	150	0.50 ±0.05
HK 1005 R15□-T	RoHS	150	±5%	8	100	12	17	17	—	—	550	920	3.20	2.57	140	0.50 ±0.05
HK 1005 R18□-T	RoHS	180	±5%	8	100	12	16	—	—	—	500	810	3.70	2.97	130	0.50 ±0.05
HK 1005 R22□-T	RoHS	220	±5%	8	100	12	16	—	—	—	450	700	4.20	3.29	120	0.50 ±0.05
HK 1005 R27□-T	RoHS	270	±5%	8	100	12	14	—	—	—	400	600	4.80	3.92	110	0.50 ±0.05

※型号中的□中标有电感值公差。上述以外的电感量公差值，请另外咨询。

● HK 1608

型号	EHS	标称电感值 [nH]	电感量公差 ※)	Q值 (min.)	LQ 测试频率 [MHz]	Q (Typical) 频率 [MHz]					自共振频率 [MHz]		直流电阻 DC [Ω]		额定电流 [mA] (max.)	厚度 [mm]
						100	300	500	800	1000	(min.)	(typ.)	(max.)	(typ.)		
HK 1608 1N0□-T	RoHS	1.0	±0.3nH	8	100	14	30	40	70	90	10000	> 13000	0.05	0.015	300	0.80 ±0.15
HK 1608 1N2□-T	RoHS	1.2	±0.3nH	8	100	14	30	40	70	90	10000	> 13000	0.05	0.015	300	0.80 ±0.15
HK 1608 1N5□-T	RoHS	1.5	±0.3nH	8	100	14	26	34	47	50	6000	> 13000	0.10	0.03	300	0.80 ±0.15
HK 1608 1N8□-T	RoHS	1.8	±0.3nH	8	100	10	18	24	30	34	6000	> 13000	0.10	0.06	300	0.80 ±0.15
HK 1608 2N2□-T	RoHS	2.2	±0.3nH	8	100	12	22	29	37	40	6000	12000	0.10	0.06	300	0.80 ±0.15
HK 1608 2N7□-T	RoHS	2.7	±0.3nH	10	100	13	24	32	41	45	6000	11000	0.10	0.06	300	0.80 ±0.15
HK 1608 3N3□-T	RoHS	3.3	±0.3nH	10	100	14	25	33	42	47	6000	9000	0.12	0.06	300	0.80 ±0.15
HK 1608 3N9□-T	RoHS	3.9	±0.3nH	10	100	13	25	33	42	46	6000	8000	0.14	0.07	300	0.80 ±0.15
HK 1608 4N7□-T	RoHS	4.7	±0.3nH	10	100	13	25	33	42	47	4000	6500	0.16	0.08	300	0.80 ±0.15
HK 1608 5N6□-T	RoHS	5.6	±0.3nH	10	100	14	25	33	42	46	4000	5800	0.18	0.09	300	0.80 ±0.15
HK 1608 6N8□-T	RoHS	6.8	±5%	10	100	14	25	33	43	47	4000	5600	0.22	0.11	300	0.80 ±0.15
HK 1608 8N2□-T	RoHS	8.2	±5%	10	100	14	26	34	44	48	3500	5200	0.24	0.13	300	0.80 ±0.15
HK 1608 10N□-T	RoHS	10	±5%	12	100	14	26	34	43	47	3400	4600	0.26	0.16	300	0.80 ±0.15
HK 1608 12N□-T	RoHS	12	±5%	12	100	14	27	35	45	49	2600	4000	0.28	0.17	300	0.80 ±0.15
HK 1608 15N□-T	RoHS	15	±5%	12	100	15	28	37	46	51	2300	3400	0.32	0.20	300	0.80 ±0.15
HK 1608 18N□-T	RoHS	18	±5%	12	100	15	27	36	44	48	2000	3000	0.35	0.21	300	0.80 ±0.15
HK 1608 22N□-T	RoHS	22	±5%	12	100	16	28	36	44	47	1600	2900	0.40	0.25	300	0.80 ±0.15
HK 1608 27N□-T	RoHS	27	±5%	12	100	16	29	37	45	46	1400	2200	0.45	0.28	300	0.80 ±0.15
HK 1608 33N□-T	RoHS	33	±5%	12	100	17	31	40	46	47	1200	1800	0.55	0.35	300	0.80 ±0.15
HK 1608 39N□-T	RoHS	39	±5%	12	100	18	31	39	44	44	1100	1600	0.60	0.38	300	0.80 ±0.15
HK 1608 47N□-T	RoHS	47	±5%	12	100	17	28	34	35	34	900	1600	0.70	0.45	300	0.80 ±0.15
HK 1608 56N□-T	RoHS	56	±5%	12	100	17	28	34	34	31	900	1400	0.75	0.50	300	0.80 ±0.15
HK 1608 68N□-T	RoHS	68	±5%	12	100	18	29	34	30	22	700	1200	0.85	0.55	300	0.80 ±0.15
HK 1608 82N□-T	RoHS	82	±5%	12	100	18	28	33	27	—	600	1100	0.95	0.60	300	0.80 ±0.15
HK 1608 R10□-T	RoHS	100	±5%	12	100	18	27	28	16	—	600	1000	1.00	0.65	300	0.80 ±0.15
HK 1608 R12□-T	RoHS	120	±5%	8	50	16	24	23	—	—	500	800	1.20	0.68	300	0.80 ±0.15
HK 1608 R15□-T	RoHS	150	±5%	8	50	13	19	16	—	—	500	800	1.20	0.73	300	0.80 ±0.15
HK 1608 R18□-T	RoHS	180	±5%	8	50	13	18	12	—	—	400	700	1.30	0.85	300	0.80 ±0.15
HK 1608 R22□-T	RoHS	220	±5%	8	50	12	16	—	—	—	400	600	1.50	0.95	300	0.80 ±0.15
HK 1608 R27□-T	RoHS	270	±5%	8	50	14	15	—	—	—	400	550	1.90	1.34	150	0.80 ±0.15
HK 1608 R33□-T	RoHS	330	±5%	8	50	14	—	—	—	—	350	480	2.10	1.53	150	0.80 ±0.15
HK 1608 R39□-T	RoHS	390	±5%	8	50	13	—	—	—	—	350	410	2.30	1.72	150	0.80 ±0.15
HK 1608 R47□-T	RoHS	470	±5%	8	50	13	—	—	—	—	300	360	2.60	2.04	150	0.80 ±0.15

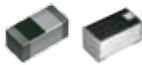
※型号中的□中标有电感值公差。上述以外的电感量公差值，请另外咨询。

● HK 2125

型号	EHS	标称电感值 [nH]	电感量公差	Q值 (min.)	LQ 测试频率 [MHz]	Q (Typical) 频率 [MHz]					自共振频率 [MHz]		直流电阻 DC [Ω]		额定电流 [mA] (max.)	厚度 [mm]
						100	300	500	800	1000	(min.)	(typ.)	(max.)	(typ.)		
HK 2125 1N5S-T	RoHS	1.5	±0.3nH	10	100	21	39	57	61	68	4000	> 6000	0.10	0.02	300	0.85 ±0.2
HK 2125 1N8S-T	RoHS	1.8	±0.3nH	10	100	18	35	49	55	59	4000	> 6000	0.10	0.02	300	0.85 ±0.2
HK 2125 2N2S-T	RoHS	2.2	±0.3nH	10	100	18	33	46	53	58	4000	> 6000	0.10	0.03	300	0.85 ±0.2
HK 2125 2N7S-T	RoHS	2.7	±0.3nH	12	100	19	36	50	56	60	4000	> 6000	0.10	0.03	300	0.85 ±0.2
HK 2125 3N3S-T	RoHS	3.3	±0.3nH	12	100	16	29	40	47	51	4000	> 6000	0.13	0.04	300	0.85 ±0.2
HK 2125 3N9S-T	RoHS	3.9	±0.3nH	12	100	18	33	46	54	60	4000	> 6000	0.15	0.05	300	0.85 ±0.2
HK 2125 4N7S-T	RoHS	4.7	±0.3nH	12	100	18	34	46	55	60	3500	> 6000	0.20	0.05	300	0.85 ±0.2
HK 2125 5N6S-T	RoHS	5.6	±0.3nH	15	100	20	38	51	60	66	3200	5400	0.23	0.05	300	0.85 ±0.2
HK 2125 6N8J-T	RoHS	6.8	±5%	15	100	20	39	52	63	69	2800	4200	0.25	0.06	300	0.85 ±0.2
HK 2125 8N2J-T	RoHS	8.2	±5%	15	100	21	40	54	63	70	2400	3700	0.28	0.07	300	0.85 ±0.2
HK 2125 10NJ-T	RoHS	10	±5%	15	100	20	38	51	60	67	2100	3100	0.30	0.09	300	0.85 ±0.2
HK 2125 12NJ-T	RoHS	12	±5%	15	100	21	39	52	60	67	1900	3000	0.35	0.10	300	0.85 ±0.2
HK 2125 15NJ-T	RoHS	15	±5%	15	100	22	42	55	63	72	1600	2600	0.40	0.11	300	0.85 ±0.2
HK 2125 18NJ-T	RoHS	18	±5%	15	100	24	44	57	63	72	1500	2300	0.45	0.13	300	0.85 ±0.2
HK 2125 22NJ-T	RoHS	22	±5%	18	100	23	43	55	60	69	1400	2100	0.50	0.16	300	0.85 ±0.2
HK 2125 27NJ-T	RoHS	27	±5%	18	100	23	42	53	58	68	1300	1800	0.55	0.17	300	0.85 ±0.2
HK 2125 33NJ-T	RoHS	33	±5%	18	100	24	43	54	55	60	1200	1700	0.60	0.19	300	0.85 ±0.2
HK 2125 39NJ-T	RoHS	39	±5%	18	100	23	41	50	47	47	1000	1400	0.65	0.25	300	0.85 ±0.2
HK 2125 47NJ-T	RoHS	47	±5%	18	100	23	41	49	43	41	900	1200	0.70	0.26	300	1.00 +0.2/-0.3
HK 2125 56NJ-T	RoHS	56	±5%	18	100	23	42	48	39	38	800	1100	0.75	0.28	300	1.00 +0.2/-0.3
HK 2125 68NJ-T	RoHS	68	±5%	18	100	25	42	45	30	—	700	900	0.80	0.33	300	1.00 +0.2/-0.3
HK 2125 82NJ-T	RoHS	82	±5%	18	100	24	41	41	—	—	600	800	0.90	0.37	300	1.00 +0.2/-0.3
HK 2125 R10J-T	RoHS	100	±5%	18	100	23	37	37	—	—	600	800	0.90	0.40	300	1.00 +0.2/-0.3
HK 2125 R12J-T	RoHS	120	±5%	13	50	22	33	29	—	—	500	700	0.95	0.43	300	1.00 +0.2/-0.3
HK 2125 R15J-T	RoHS	150	±5%	13	50	22	34	26	—	—	500	700	1.00	0.46	300	1.00 +0.2/-0.3
HK 2125 R18J-T	RoHS	180	±5%	13	50	23	34	20	—	—	400	600	1.10	0.50	300	1.00 +0.2/-0.3
HK 2125 R22J-T	RoHS	220	±5%	12	50	20	23	—	—	—	350	550	1.20	0.75	300	1.00 +0.2/-0.3
HK 2125 R27J-T	RoHS	270	±5%	12	50	20	29	—	—	—	300	480	1.30	0.85	300	1.00 +0.2/-0.3
HK 2125 R33J-T	RoHS	330	±5%	12	50	22	15	—	—	—	250	400	1.40	0.90	300	1.00 +0.2/-0.3
HK 2125 R39J-T	RoHS	390	±5%	10	50	17	12	—	—	—	250	400	1.30	0.85	300	1.00 +0.2/-0.3
HK 2125 R47J-T	RoHS	470	±5%	10	50	17	—	—	—	—	200	350	1.50	0.95	300	1.00 +0.2/-0.3

※型号中的□中标有电感值公差。上述以外的电感量公差值，请另外咨询。

多层高频High-Q 片状电感器(HK 系列 Q 型/AQ 系列)



回流焊

■型号标示法

※使用温度范围: -55~+125℃

H	K	Q	0	6	0	3	S	1	0	N	J	—	T
①			②				③				④	⑤	⑥

△=空格

①类型

代码	类型
HKQ	多层高频High-Q 片状电感器
AQ△	

②尺寸 (L×W)

代码	外型 (inch)	尺寸 (L×W) [mm]
0402	0402(01005)	0.4×0.2
0603	0603(0201)	0.6×0.3
105△	105(0402)	1.0×0.6

③系列码

代码	系列码
△	标准品
W	W
S	S
U	U

④标称电感值

代码 (例)	标称电感值 [μH]
3N9	3.9
10N	10.0

※N=nH 的小数点

⑤电感量公差

代码	容量公差
H	±3%
J	±5%
B	±0.1nH
C	±0.2nH
S	±0.3nH

⑥包装

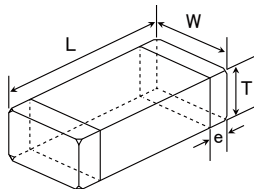
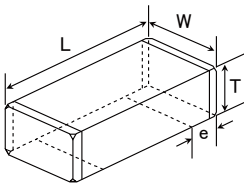
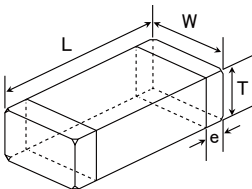
代码	包装
—T	卷盘带装
—E	压纹带1mm 间距0402 专用

■标准外型尺寸 / 标准数量

HKQ0402、HKQ0603S、HKQ0603U、AQ 105

HKQ0603W 0N6~24N

HKQ0603W 27N~R10



Type	L	W	T	e	标准数量 [pcs]	
					纸带	压纹带
HKQ0402 (01005)	0.4±0.02 (0.016±0.001)	0.2±0.02 (0.008±0.001)	0.2±0.02 (0.008±0.001)	0.1±0.03 (0.004±0.001)	20000	40000
HKQ0603W (0201)	0.6±0.03 (0.024±0.001)	0.3±0.03 (0.012±0.001)	0.3±0.03 (0.012±0.001)	0.15±0.05 (0.006±0.002)	15000	—
HKQ0603S HKQ0603U (0201)	0.6±0.03 (0.024±0.001)	0.3±0.03 (0.012±0.001)	0.3±0.03 (0.012±0.001)	0.1±0.05 (0.004±0.002)	15000	—
AQ 105 (0402)	1.0±0.05 (0.039±0.002)	0.6±0.1 (0.024±0.004)	0.5±0.05 (0.020±0.002)	0.175±0.075 (0.007±0.003)	10000	—

单位: mm (inch)

▶ 由于篇幅有限, 本产品目录中只记载了有代表性的产品规格。若考虑使用弊公司产品时, 请确认交货规格说明书中的详细规格。另外, 有关各产品的详细信息(特性图、可靠性信息、使用时的注意事项等), 请参阅弊司网站(<http://www.ty-top.com/>)。

●HKQ0402

型号	EHS	标称电感值 [nH]	电感量公差	Q值 [min.]	LQ 测试频率 [MHz]	Q (Typical) 频率 [Hz]					自共振频率 [MHz] (min.)	直流电阻 DC [Ω] (max.)	额定电流 [mA] (max.)	厚度 [mm]
						500M	800M	1.8G	2.0G	2.4G				
HKQ0402 0N5□-△	RoHS	0.5	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	21	22	26	10000	0.08	500	0.20 ±0.02
HKQ0402 0N6□-△	RoHS	0.6	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	14	23	24	28	10000	0.08	500	0.20 ±0.02
HKQ0402 0N7□-△	RoHS	0.7	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	21	22	25	10000	0.09	470	0.20 ±0.02
HKQ0402 0N8□-△	RoHS	0.8	±0.1nH, ±0.2nH, ±0.3nH	8	500	12	15	25	26	30	10000	0.09	470	0.20 ±0.02
HKQ0402 0N9□-△	RoHS	0.9	±0.1nH, ±0.2nH, ±0.3nH	8	500	12	15	25	26	30	10000	0.09	470	0.20 ±0.02
HKQ0402 1N0□-△	RoHS	1.0	±0.1nH, ±0.2nH, ±0.3nH	8	500	12	15	25	27	30	10000	0.09	470	0.20 ±0.02
HKQ0402 1N1□-△	RoHS	1.1	±0.1nH, ±0.2nH, ±0.3nH	8	500	12	15	24	26	30	10000	0.11	430	0.20 ±0.02
HKQ0402 1N2□-△	RoHS	1.2	±0.1nH, ±0.2nH, ±0.3nH	8	500	12	15	24	26	29	10000	0.11	430	0.20 ±0.02
HKQ0402 1N3□-△	RoHS	1.3	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	14	24	26	29	10000	0.13	390	0.20 ±0.02
HKQ0402 1N4□-△	RoHS	1.4	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	14	23	24	28	10000	0.17	340	0.20 ±0.02
HKQ0402 1N5□-△	RoHS	1.5	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	13	23	25	28	10000	0.17	340	0.20 ±0.02
HKQ0402 1N6□-△	RoHS	1.6	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	22	24	10000	0.19	320	0.20 ±0.02
HKQ0402 1N7□-△	RoHS	1.7	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	22	25	10000	0.19	320	0.20 ±0.02
HKQ0402 1N8□-△	RoHS	1.8	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	13	21	23	26	10000	0.19	320	0.20 ±0.02
HKQ0402 1N9□-△	RoHS	1.9	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	22	25	10000	0.21	310	0.20 ±0.02
HKQ0402 2N0□-△	RoHS	2.0	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	21	23	25	10000	0.23	290	0.20 ±0.02
HKQ0402 2N1□-△	RoHS	2.1	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	21	24	9700	0.27	270	0.20 ±0.02
HKQ0402 2N2□-△	RoHS	2.2	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	21	22	24	9300	0.27	270	0.20 ±0.02
HKQ0402 2N3□-△	RoHS	2.3	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	21	24	8300	0.27	270	0.20 ±0.02
HKQ0402 2N4□-△	RoHS	2.4	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	21	22	25	8300	0.30	260	0.20 ±0.02
HKQ0402 2N5□-△	RoHS	2.5	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	22	24	8300	0.30	260	0.20 ±0.02
HKQ0402 2N6□-△	RoHS	2.6	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	21	24	8300	0.30	260	0.20 ±0.02
HKQ0402 2N7□-△	RoHS	2.7	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	21	22	24	8200	0.30	260	0.20 ±0.02
HKQ0402 2N8□-△	RoHS	2.8	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	22	25	8200	0.30	260	0.20 ±0.02
HKQ0402 2N9□-△	RoHS	2.9	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	14	21	23	25	8000	0.30	260	0.20 ±0.02
HKQ0402 3N0□-△	RoHS	3.0	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	21	23	8000	0.30	260	0.20 ±0.02
HKQ0402 3N1□-△	RoHS	3.1	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	21	24	7400	0.31	250	0.20 ±0.02
HKQ0402 3N2□-△	RoHS	3.2	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	21	23	7200	0.31	250	0.20 ±0.02
HKQ0402 3N3□-△	RoHS	3.3	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	21	23	6700	0.34	240	0.20 ±0.02
HKQ0402 3N4□-△	RoHS	3.4	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	13	20	21	23	6600	0.34	240	0.20 ±0.02
HKQ0402 3N5□-△	RoHS	3.5	±0.1nH, ±0.2nH, ±0.3nH	8	500	10	12	19	20	22	6500	0.34	240	0.20 ±0.02
HKQ0402 3N6□-△	RoHS	3.6	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	14	21	22	24	6500	0.35	240	0.20 ±0.02
HKQ0402 3N7□-△	RoHS	3.7	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	14	21	23	25	6500	0.35	240	0.20 ±0.02
HKQ0402 3N8□-△	RoHS	3.8	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	14	22	23	26	6500	0.35	240	0.20 ±0.02
HKQ0402 3N9□-△	RoHS	3.9	±0.1nH, ±0.2nH, ±0.3nH	8	500	11	14	21	23	25	6500	0.35	240	0.20 ±0.02
HKQ0402 4N3□-△	RoHS	4.3	±0.3nH, ±3%, ±5%	8	500	11	15	22	24	25	6200	0.37	230	0.20 ±0.02
HKQ0402 4N7□-△	RoHS	4.7	±0.3nH, ±3%, ±5%	8	500	11	14	22	23	25	5400	0.42	220	0.20 ±0.02
HKQ0402 5N1□-△	RoHS	5.1	±0.3nH, ±3%, ±5%	8	500	11	14	21	22	24	5400	0.68	170	0.20 ±0.02
HKQ0402 5N6□-△	RoHS	5.6	±0.3nH, ±3%, ±5%	8	500	11	14	22	23	25	5400	0.69	170	0.20 ±0.02
HKQ0402 6N2□-△	RoHS	6.2	±3%, ±5%	8	500	11	13	20	21	23	5400	0.91	150	0.20 ±0.02
HKQ0402 6N8□-△	RoHS	6.8	±3%, ±5%	8	500	11	14	20	21	23	5400	0.91	150	0.20 ±0.02
HKQ0402 7N5□-△	RoHS	7.5	±3%, ±5%	8	500	11	14	20	21	23	4700	0.93	150	0.20 ±0.02
HKQ0402 8N2□-△	RoHS	8.2	±3%, ±5%	8	500	11	13	19	19	20	4300	0.97	140	0.20 ±0.02
HKQ0402 9N1□-△	RoHS	9.1	±3%, ±5%	8	500	10	13	19	20	21	4300	0.97	140	0.20 ±0.02
HKQ0402 10N□-△	RoHS	10	±3%, ±5%	8	500	11	13	19	19	19	4000	1.23	140	0.20 ±0.02
HKQ0402 11N□-△	RoHS	11	±3%, ±5%	8	500	12	14	20	21	21	3900	1.23	140	0.20 ±0.02
HKQ0402 12N□-△	RoHS	12	±3%, ±5%	8	500	11	14	20	20	21	3800	1.23	140	0.20 ±0.02
HKQ0402 13N□-△	RoHS	13	±3%, ±5%	8	500	11	14	18	18	17	3400	1.32	140	0.20 ±0.02
HKQ0402 15N□-△	RoHS	15	±3%, ±5%	8	500	11	14	18	18	17	3000	1.54	140	0.20 ±0.02
HKQ0402 16N□-△	RoHS	16	±3%, ±5%	8	500	11	14	18	18	17	3000	1.58	140	0.20 ±0.02
HKQ0402 18N□-△	RoHS	18	±3%, ±5%	8	500	12	15	20	20	19	2800	1.69	140	0.20 ±0.02
HKQ0402 20N□-△	RoHS	20	±3%, ±5%	8	500	12	14	17	16	12	2600	1.78	140	0.20 ±0.02
HKQ0402 22N□-△	RoHS	22	±3%, ±5%	8	500	11	13	15	14	11	2100	2.01	120	0.20 ±0.02
HKQ0402 24N□-△	RoHS	24	±3%, ±5%	8	500	12	14	16	15	13	2100	2.23	120	0.20 ±0.02
HKQ0402 27N□-△	RoHS	27	±3%, ±5%	3	100	11	13	13	11	7	1700	2.24	120	0.20 ±0.02
HKQ0402 30N□-△	RoHS	30	±3%, ±5%	3	100	11	13	13	12	9	1700	2.80	120	0.20 ±0.02
HKQ0402 33N□-△	RoHS	33	±3%, ±5%	3	100	11	13	14	13	-	1700	3.80	110	0.20 ±0.02
HKQ0402 39N□-△	RoHS	39	±3%, ±5%	3	100	11	13	12	-	-	1500	4.50	100	0.20 ±0.02
HKQ0402 47N□-△	RoHS	47	±3%, ±5%	3	100	11	12	9	-	-	1200	5.00	100	0.20 ±0.02

※电感值公差标在型号□中。

※包装规格代码标在型号△中。

●HKQ0603W

型号	EHS	标称电感值 [nH]	电感量公差	Q值 (min.)	LQ 测试频率 [MHz]	Q (Typical) 频率 [Hz]					自共振频率 [MHz] (min.)	直流电阻 DC [Ω] (max.)	额定电流 [mA] (max.)	厚度 [mm]
						500M	800M	1.8G	2.0G	2.4G				
HKQ0603W0N6□-T	RoHS	0.6	±0.1nH, ±0.2nH, ±0.3nH	15	500	30<	40<	75<	80<	88<	10000	0.07	850	0.30 ±0.03
HKQ0603W0N7□-T	RoHS	0.7	±0.1nH, ±0.2nH, ±0.3nH	15	500	30<	40<	75<	80<	88<	10000	0.07	850	0.30 ±0.03
HKQ0603W0N8□-T	RoHS	0.8	±0.1nH, ±0.2nH, ±0.3nH	15	500	30<	40<	75<	80<	88<	10000	0.07	850	0.30 ±0.03
HKQ0603W0N9□-T	RoHS	0.9	±0.1nH, ±0.2nH, ±0.3nH	15	500	30<	40<	75<	80<	88<	10000	0.09	760	0.30 ±0.03
HKQ0603W1N0□-T	RoHS	1	±0.1nH, ±0.2nH, ±0.3nH	15	500	30<	40<	75<	80<	88<	10000	0.12	680	0.30 ±0.03
HKQ0603W1N1□-T	RoHS	1.1	±0.1nH, ±0.2nH, ±0.3nH	15	500	30<	40<	75<	80<	88<	10000	0.10	750	0.30 ±0.03
HKQ0603W1N2□-T	RoHS	1.2	±0.1nH, ±0.2nH, ±0.3nH	15	500	30	40	75	80	88	10000	0.10	750	0.30 ±0.03
HKQ0603W1N3□-T	RoHS	1.3	±0.1nH, ±0.2nH, ±0.3nH	15	500	30	40	70	74	85	10000	0.12	650	0.30 ±0.03
HKQ0603W1N4□-T	RoHS	1.4	±0.1nH, ±0.2nH, ±0.3nH	15	500	30	39	65	68	80	10000	0.12	650	0.30 ±0.03
HKQ0603W1N5□-T	RoHS	1.5	±0.1nH, ±0.2nH, ±0.3nH	15	500	30	38	60	63	75	10000	0.12	650	0.30 ±0.03
HKQ0603W1N6□-T	RoHS	1.6	±0.1nH, ±0.2nH, ±0.3nH	15	500	26	34	55	57	70	10000	0.14	610	0.30 ±0.03
HKQ0603W1N7□-T	RoHS	1.7	±0.1nH, ±0.2nH, ±0.3nH	15	500	25	33	53	55	62	10000	0.14	610	0.30 ±0.03
HKQ0603W1N8□-T	RoHS	1.8	±0.1nH, ±0.2nH, ±0.3nH	15	500	25	32	53	55	62	10000	0.14	610	0.30 ±0.03
HKQ0603W1N9□-T	RoHS	1.9	±0.1nH, ±0.2nH, ±0.3nH	15	500	25	32	53	55	62	10000	0.14	610	0.30 ±0.03
HKQ0603W2N0□-T	RoHS	2	±0.1nH, ±0.2nH, ±0.3nH	15	500	25	32	53	55	62	10000	0.14	610	0.30 ±0.03
HKQ0603W2N1□-T	RoHS	2.1	±0.1nH, ±0.2nH, ±0.3nH	15	500	25	32	52	54	61	10000	0.14	610	0.30 ±0.03
HKQ0603W2N2□-T	RoHS	2.2	±0.1nH, ±0.2nH, ±0.3nH	15	500	25	32	52	54	61	10000	0.14	610	0.30 ±0.03
HKQ0603W2N3□-T	RoHS	2.3	±0.1nH, ±0.2nH, ±0.3nH	15	500	25	32	52	54	61	10000	0.16	560	0.30 ±0.03
HKQ0603W2N4□-T	RoHS	2.4	±0.1nH, ±0.2nH, ±0.3nH	15	500	25	32	51	53	61	10000	0.16	560	0.30 ±0.03
HKQ0603W2N5□-T	RoHS	2.5	±0.1nH, ±0.2nH, ±0.3nH	15	500	24	32	51	53	60	8500	0.16	560	0.30 ±0.03
HKQ0603W2N6□-T	RoHS	2.6	±0.1nH, ±0.2nH, ±0.3nH	15	500	24	32	50	52	56	8500	0.16	560	0.30 ±0.03
HKQ0603W2N7□-T	RoHS	2.7	±0.1nH, ±0.2nH, ±0.3nH	15	500	23	31	48	49	54	8500	0.19	510	0.30 ±0.03
HKQ0603W2N8□-T	RoHS	2.8	±0.1nH, ±0.2nH, ±0.3nH	15	500	23	31	48	50	53	8500	0.20	500	0.30 ±0.03
HKQ0603W2N9□-T	RoHS	2.9	±0.1nH, ±0.2nH, ±0.3nH	15	500	23	31	48	49	52	8500	0.20	500	0.30 ±0.03
HKQ0603W3N0□-T	RoHS	3	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	31	46	47	52	8500	0.20	500	0.30 ±0.03
HKQ0603W3N1□-T	RoHS	3.1	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	30	46	48	52	8500	0.20	500	0.30 ±0.03
HKQ0603W3N2□-T	RoHS	3.2	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	30	46	48	52	8500	0.20	500	0.30 ±0.03
HKQ0603W3N3□-T	RoHS	3.3	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	30	45	46	50	8000	0.20	500	0.30 ±0.03
HKQ0603W3N4□-T	RoHS	3.4	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	30	46	47	50	8000	0.20	500	0.30 ±0.03
HKQ0603W3N5□-T	RoHS	3.5	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	29	45	46	50	8000	0.20	500	0.30 ±0.03
HKQ0603W3N6□-T	RoHS	3.6	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	29	45	46	50	7000	0.20	500	0.30 ±0.03
HKQ0603W3N7□-T	RoHS	3.7	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	28	43	44	48	7000	0.20	500	0.30 ±0.03
HKQ0603W3N8□-T	RoHS	3.8	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	28	43	44	47	7000	0.20	500	0.30 ±0.03
HKQ0603W3N9□-T	RoHS	3.9	±0.1nH, ±0.2nH, ±0.3nH	15	500	22	28	43	43	47	7000	0.25	440	0.30 ±0.03
HKQ0603W4N3□-T	RoHS	4.3	±0.2nH, ±0.3nH, ±3%, ±5%	15	500	21	29	43	44	47	6000	0.30	400	0.30 ±0.03
HKQ0603W4N7□-T	RoHS	4.7	±0.2nH, ±0.3nH, ±3%, ±5%	15	500	21	29	42	42	45	6000	0.35	370	0.30 ±0.03
HKQ0603W5N1□-T	RoHS	5.1	±0.2nH, ±0.3nH, ±3%, ±5%	15	500	21	27	41	41	44	6000	0.35	370	0.30 ±0.03
HKQ0603W5N6□-T	RoHS	5.6	±0.2nH, ±0.3nH, ±3%, ±5%	15	500	21	28	40	40	43	6000	0.35	370	0.30 ±0.03
HKQ0603W6N2□-T	RoHS	6.2	±0.2nH, ±0.3nH, ±3%, ±5%	15	500	21	27	40	41	41	6000	0.40	340	0.30 ±0.03
HKQ0603W6N8□-T	RoHS	6.8	±3%, ±5%	15	500	21	27	39	39	40	6000	0.50	310	0.30 ±0.03
HKQ0603W7N5□-T	RoHS	7.5	±3%, ±5%	14	500	20	27	37	37	39	5000	0.60	300	0.30 ±0.03
HKQ0603W8N2□-T	RoHS	8.2	±3%, ±5%	14	500	20	27	37	37	40	5000	0.70	250	0.30 ±0.03
HKQ0603W9N1□-T	RoHS	9.1	±3%, ±5%	14	500	20	26	36	36	39	4000	0.70	250	0.30 ±0.03
HKQ0603W10N□-T	RoHS	10	±3%, ±5%	14	500	20	26	35	35	37	4000	0.85	220	0.30 ±0.03
HKQ0603W11N□-T	RoHS	11	±3%, ±5%	14	500	20	26	34	35	35	3000	0.85	220	0.30 ±0.03
HKQ0603W12N□-T	RoHS	12	±3%, ±5%	14	500	20	26	32	33	34	3000	0.85	220	0.30 ±0.03
HKQ0603W13N□-T	RoHS	13	±3%, ±5%	14	500	20	24	30	31	30	3000	0.90	200	0.30 ±0.03
HKQ0603W15N□-T	RoHS	15	±3%, ±5%	14	500	20	24	30	29	27	3000	0.90	200	0.30 ±0.03
HKQ0603W16N□-T	RoHS	16	±3%, ±5%	14	500	19	24	28	27	25	3000	1.00	180	0.30 ±0.03
HKQ0603W18N□-T	RoHS	18	±3%, ±5%	14	500	19	24	28	26	25	2500	1.20	180	0.30 ±0.03
HKQ0603W20N□-T	RoHS	20	±3%, ±5%	14	500	18	23	26	26	22	2500	1.20	180	0.30 ±0.03
HKQ0603W22N□-T	RoHS	22	±3%, ±5%	14	500	18	23	26	26	22	2500	1.60	160	0.30 ±0.03
HKQ0603W24N□-T	RoHS	24	±3%, ±5%	12	500	17	20	22	20	15	2200	1.60	160	0.30 ±0.03
HKQ0603W27N□-T	RoHS	27	±3%, ±5%	9	500	13	15	12	-	-	1700	1.60	160	0.30 ±0.03
HKQ0603W30N□-T	RoHS	30	±3%, ±5%	8	500	13	14	11	-	-	1600	1.60	160	0.30 ±0.03
HKQ0603W33N□-T	RoHS	33	±5%	7	300	13	14	-	-	-	1500	1.60	160	0.30 ±0.03
HKQ0603W39N□-T	RoHS	39	±5%	7	300	12	13	-	-	-	1300	2.00	140	0.30 ±0.03
HKQ0603W47N□-T	RoHS	47	±5%	7	300	12	13	-	-	-	1200	2.10	140	0.30 ±0.03
HKQ0603W56N□-T	RoHS	56	±5%	7	300	11	12	-	-	-	1000	3.00	120	0.30 ±0.03
HKQ0603W68N□-T	RoHS	68	±5%	7	300	11	12	-	-	-	1000	3.10	120	0.30 ±0.03
HKQ0603W82N□-T	RoHS	82	±5%	7	300	11	11	-	-	-	900	3.50	110	0.30 ±0.03
HKQ0603W10□-T	RoHS	100	±5%	6	300	10	8	-	-	-	800	4.10	100	0.30 ±0.03

※电感值公差标在型号□中。

●HKQ0603S

型号	EHS	标称电感值 [nH]	电感量公差	Q值 (min.)	LQ 测试频率 [MHz]	Q (Typical) 频率 [Hz]					自共振频率 [MHz] (min.)	直流电阻 DC [Ω] (max.)	额定电流 [mA] (max.)	厚度 [mm]
						500M	800M	1.8G	2.0G	2.4G				
HKQ0603S0N6□-T	RoHS	0.6	±0.2nH, ±0.3nH	13	500	>24	>31	>53	>56	>64	10000	0.06	600	0.30 ±0.03
HKQ0603S0N7□-T	RoHS	0.7	±0.2nH, ±0.3nH	13	500	>24	>31	>53	>56	>64	10000	0.07	550	0.30 ±0.03
HKQ0603S0N8□-T	RoHS	0.8	±0.2nH, ±0.3nH	13	500	>24	>31	>53	>56	>64	10000	0.07	550	0.30 ±0.03
HKQ0603S0N9□-T	RoHS	0.9	±0.2nH, ±0.3nH	13	500	>24	>31	>53	>56	>64	10000	0.08	520	0.30 ±0.03
HKQ0603S1N0□-T	RoHS	1.0	±0.2nH, ±0.3nH	13	500	24	31	53	56	64	10000	0.09	490	0.30 ±0.03
HKQ0603S1N1□-T	RoHS	1.1	±0.2nH, ±0.3nH	13	500	19	26	44	47	54	10000	0.12	420	0.30 ±0.03
HKQ0603S1N2□-T	RoHS	1.2	±0.2nH, ±0.3nH	13	500	19	25	42	44	51	10000	0.15	380	0.30 ±0.03
HKQ0603S1N3□-T	RoHS	1.3	±0.2nH, ±0.3nH	13	500	19	25	40	42	47	10000	0.19	330	0.30 ±0.03
HKQ0603S1N4□-T	RoHS	1.4	±0.2nH, ±0.3nH	13	500	19	24	39	41	47	10000	0.11	440	0.30 ±0.03
HKQ0603S1N5□-T	RoHS	1.5	±0.2nH, ±0.3nH	13	500	19	24	39	41	46	10000	0.12	420	0.30 ±0.03
HKQ0603S1N6□-T	RoHS	1.6	±0.2nH, ±0.3nH	13	500	19	24	39	41	46	10000	0.13	410	0.30 ±0.03
HKQ0603S1N7□-T	RoHS	1.7	±0.2nH, ±0.3nH	13	500	19	24	39	41	46	10000	0.15	380	0.30 ±0.03
HKQ0603S1N8□-T	RoHS	1.8	±0.2nH, ±0.3nH	13	500	18	24	39	41	46	10000	0.16	370	0.30 ±0.03
HKQ0603S1N9□-T	RoHS	1.9	±0.2nH, ±0.3nH	13	500	18	23	38	40	45	10000	0.20	330	0.30 ±0.03
HKQ0603S2N0□-T	RoHS	2.0	±0.2nH, ±0.3nH	13	500	17	23	37	39	44	10000	0.24	300	0.30 ±0.03
HKQ0603S2N1□-T	RoHS	2.1	±0.2nH, ±0.3nH	13	500	17	23	37	39	44	10000	0.26	290	0.30 ±0.03
HKQ0603S2N2□-T	RoHS	2.2	±0.2nH, ±0.3nH	13	500	17	23	37	39	43	10000	0.28	270	0.30 ±0.03
HKQ0603S2N3□-T	RoHS	2.3	±0.2nH, ±0.3nH	13	500	17	23	36	38	43	10000	0.30	270	0.30 ±0.03
HKQ0603S2N4□-T	RoHS	2.4	±0.2nH, ±0.3nH	13	500	17	22	36	38	42	10000	0.32	260	0.30 ±0.03
HKQ0603S2N5□-T	RoHS	2.5	±0.2nH, ±0.3nH	13	500	17	22	34	35	39	9500	0.20	330	0.30 ±0.03
HKQ0603S2N6□-T	RoHS	2.6	±0.2nH, ±0.3nH	13	500	17	22	33	35	39	9300	0.22	310	0.30 ±0.03
HKQ0603S2N7□-T	RoHS	2.7	±0.2nH, ±0.3nH	13	500	17	22	33	35	39	9100	0.24	300	0.30 ±0.03
HKQ0603S2N8□-T	RoHS	2.8	±0.2nH, ±0.3nH	13	500	17	22	33	35	39	8900	0.25	290	0.30 ±0.03
HKQ0603S2N9□-T	RoHS	2.9	±0.2nH, ±0.3nH	13	500	17	22	33	35	39	8700	0.28	270	0.30 ±0.03
HKQ0603S3N0□-T	RoHS	3.0	±0.2nH, ±0.3nH	13	500	17	22	33	35	39	8600	0.28	270	0.30 ±0.03
HKQ0603S3N1□-T	RoHS	3.1	±0.2nH, ±0.3nH	13	500	17	22	33	35	39	8400	0.29	270	0.30 ±0.03
HKQ0603S3N2□-T	RoHS	3.2	±0.2nH, ±0.3nH	13	500	17	22	33	35	39	8200	0.30	270	0.30 ±0.03
HKQ0603S3N3□-T	RoHS	3.3	±0.2nH, ±0.3nH	13	500	17	22	33	35	39	8100	0.32	260	0.30 ±0.03
HKQ0603S3N4□-T	RoHS	3.4	±0.2nH, ±0.3nH	13	500	16	22	33	35	39	8000	0.36	240	0.30 ±0.03
HKQ0603S3N5□-T	RoHS	3.5	±0.2nH, ±0.3nH	13	500	16	22	33	35	39	7800	0.40	230	0.30 ±0.03
HKQ0603S3N6□-T	RoHS	3.6	±0.2nH, ±0.3nH	13	500	16	22	33	35	39	7700	0.41	230	0.30 ±0.03
HKQ0603S3N7□-T	RoHS	3.7	±0.2nH, ±0.3nH	13	500	16	22	33	35	38	7600	0.44	220	0.30 ±0.03
HKQ0603S3N8□-T	RoHS	3.8	±0.2nH, ±0.3nH	13	500	16	22	33	35	38	7500	0.48	210	0.30 ±0.03
HKQ0603S3N9□-T	RoHS	3.9	±0.2nH, ±0.3nH	13	500	16	22	33	35	38	7300	0.48	210	0.30 ±0.03
HKQ0603S4N3□-T	RoHS	4.3	±0.2nH, ±0.3nH	13	500	16	21	32	34	37	6500	0.39	230	0.30 ±0.03
HKQ0603S4N7□-T	RoHS	4.7	±0.2nH, ±0.3nH	13	500	16	21	32	34	37	6200	0.44	220	0.30 ±0.03
HKQ0603S5N1□-T	RoHS	5.1	±0.2nH, ±0.3nH	13	500	16	21	32	34	37	5900	0.49	210	0.30 ±0.03
HKQ0603S5N6□-T	RoHS	5.6	±0.2nH, ±0.3nH	13	500	16	21	32	34	37	5500	0.47	210	0.30 ±0.03
HKQ0603S6N2□-T	RoHS	6.2	±0.2nH, ±0.3nH	13	500	16	21	32	33	36	5100	0.52	200	0.30 ±0.03
HKQ0603S6N8□-T	RoHS	6.8	±3%, ±5%	13	500	16	21	31	32	35	4800	0.55	190	0.30 ±0.03
HKQ0603S7N5□-T	RoHS	7.5	±3%, ±5%	13	500	16	20	30	32	34	4600	0.51	200	0.30 ±0.03
HKQ0603S8N2□-T	RoHS	8.2	±3%, ±5%	13	500	16	20	30	31	33	4300	0.57	190	0.30 ±0.03
HKQ0603S9N1□-T	RoHS	9.1	±3%, ±5%	13	500	16	20	30	30	32	4000	0.73	170	0.30 ±0.03
HKQ0603S10N□-T	RoHS	10	±3%, ±5%	13	500	16	20	28	29	31	3800	0.85	160	0.30 ±0.03
HKQ0603S12N□-T	RoHS	12	±3%, ±5%	12	500	16	20	27	27	27	3300	0.85	160	0.30 ±0.03
HKQ0603S15N□-T	RoHS	15	±3%, ±5%	12	500	15	19	24	24	23	2600	0.89	150	0.30 ±0.03
HKQ0603S18N□-T	RoHS	18	±3%, ±5%	11	500	15	19	23	23	21	2300	1.05	140	0.30 ±0.03
HKQ0603S22N□-T	RoHS	22	±3%, ±5%	10	500	15	19	22	22	19	1900	1.29	130	0.30 ±0.03

※电感公差标在型号□中。

●HKQ0603U

型号	EHS	标称电感值 [nH]	电感量公差	Q值 (min.)	LQ 测试频率 [MHz]	Q (Typical) 频率 [Hz]					自共振频率 [MHz] (min.)	直流电阻 DC [Ω] (max.)	额定电流 [mA] (max.)	厚度 [mm]
						500M	800M	1.8G	2.0G	2.4G				
HKQ0603U0N6□-T	RoHS	0.6	±0.1nH, ±0.2nH, ±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.06	900	0.30 ±0.03
HKQ0603U0N7□-T	RoHS	0.7	±0.1nH, ±0.2nH, ±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.06	900	0.30 ±0.03
HKQ0603U0N8□-T	RoHS	0.8	±0.1nH, ±0.2nH, ±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.06	900	0.30 ±0.03
HKQ0603U0N9□-T	RoHS	0.9	±0.1nH, ±0.2nH, ±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.06	900	0.30 ±0.03
HKQ0603U1N0□-T	RoHS	1.0	±0.1nH, ±0.2nH, ±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.07	850	0.30 ±0.03
HKQ0603U1N1□-T	RoHS	1.1	±0.1nH, ±0.2nH, ±0.3nH	14	500	>35	>47	>75	>80	>88	10000	0.07	850	0.30 ±0.03
HKQ0603U1N2□-T	RoHS	1.2	±0.1nH, ±0.2nH, ±0.3nH	14	500	35	47	75	80	88	10000	0.08	800	0.30 ±0.03
HKQ0603U1N3□-T	RoHS	1.3	±0.1nH, ±0.2nH, ±0.3nH	14	500	32	43	70	74	82	10000	0.09	760	0.30 ±0.03
HKQ0603U1N4□-T	RoHS	1.4	±0.1nH, ±0.2nH, ±0.3nH	14	500	29	39	63	67	75	10000	0.12	640	0.30 ±0.03
HKQ0603U1N5□-T	RoHS	1.5	±0.1nH, ±0.2nH, ±0.3nH	14	500	27	36	59	62	69	10000	0.15	600	0.30 ±0.03
HKQ0603U1N6□-T	RoHS	1.6	±0.1nH, ±0.2nH, ±0.3nH	14	500	25	33	54	57	63	10000	0.19	510	0.30 ±0.03
HKQ0603U1N7□-T	RoHS	1.7	±0.1nH, ±0.2nH, ±0.3nH	14	500	25	32	52	54	61	10000	0.11	680	0.30 ±0.03
HKQ0603U1N8□-T	RoHS	1.8	±0.1nH, ±0.2nH, ±0.3nH	14	500	25	32	51	53	59	10000	0.12	640	0.30 ±0.03
HKQ0603U1N9□-T	RoHS	1.9	±0.1nH, ±0.2nH, ±0.3nH	14	500	24	31	50	53	58	10000	0.13	620	0.30 ±0.03
HKQ0603U2N0□-T	RoHS	2.0	±0.1nH, ±0.2nH, ±0.3nH	14	500	24	31	50	53	58	10000	0.15	600	0.30 ±0.03
HKQ0603U2N1□-T	RoHS	2.1	±0.1nH, ±0.2nH, ±0.3nH	14	500	24	31	50	53	58	10000	0.16	550	0.30 ±0.03
HKQ0603U2N2□-T	RoHS	2.2	±0.1nH, ±0.2nH, ±0.3nH	14	500	24	31	50	53	58	10000	0.20	500	0.30 ±0.03
HKQ0603U2N3□-T	RoHS	2.3	±0.1nH, ±0.2nH, ±0.3nH	14	500	24	31	49	52	58	10000	0.24	460	0.30 ±0.03
HKQ0603U2N4□-T	RoHS	2.4	±0.1nH, ±0.2nH, ±0.3nH	14	500	22	28	45	48	53	10000	0.26	430	0.30 ±0.03
HKQ0603U2N5□-T	RoHS	2.5	±0.1nH, ±0.2nH, ±0.3nH	14	500	22	29	46	49	54	10000	0.28	415	0.30 ±0.03
HKQ0603U2N6□-T	RoHS	2.6	±0.1nH, ±0.2nH, ±0.3nH	14	500	21	27	44	46	51	10000	0.30	405	0.30 ±0.03
HKQ0603U2N7□-T	RoHS	2.7	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	26	41	43	48	10000	0.32	400	0.30 ±0.03
HKQ0603U2N8□-T	RoHS	2.8	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	26	41	43	47	9500	0.20	500	0.30 ±0.03
HKQ0603U2N9□-T	RoHS	2.9	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	26	41	43	47	9300	0.22	480	0.30 ±0.03
HKQ0603U3N0□-T	RoHS	3.0	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	26	41	43	47	9100	0.24	460	0.30 ±0.03
HKQ0603U3N1□-T	RoHS	3.1	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	26	41	43	47	8900	0.25	450	0.30 ±0.03
HKQ0603U3N2□-T	RoHS	3.2	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	26	40	43	47	8700	0.28	415	0.30 ±0.03
HKQ0603U3N3□-T	RoHS	3.3	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	26	40	43	47	8600	0.28	415	0.30 ±0.03
HKQ0603U3N4□-T	RoHS	3.4	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	25	40	43	47	8400	0.29	410	0.30 ±0.03
HKQ0603U3N5□-T	RoHS	3.5	±0.1nH, ±0.2nH, ±0.3nH	14	500	20	25	40	42	46	8200	0.30	405	0.30 ±0.03
HKQ0603U3N6□-T	RoHS	3.6	±0.1nH, ±0.2nH, ±0.3nH	14	500	19	25	40	42	46	8100	0.32	400	0.30 ±0.03
HKQ0603U3N7□-T	RoHS	3.7	±0.1nH, ±0.2nH, ±0.3nH	14	500	19	25	40	42	46	8000	0.36	370	0.30 ±0.03
HKQ0603U3N8□-T	RoHS	3.8	±0.1nH, ±0.2nH, ±0.3nH	14	500	19	25	39	41	45	7800	0.40	355	0.30 ±0.03
HKQ0603U3N9□-T	RoHS	3.9	±0.1nH, ±0.2nH, ±0.3nH	14	500	19	25	39	41	45	7700	0.41	350	0.30 ±0.03
HKQ0603U4N0□-T	RoHS	4.0	±0.1nH, ±0.2nH, ±0.3nH	14	500	18	25	39	41	45	7600	0.44	335	0.30 ±0.03
HKQ0603U4N1□-T	RoHS	4.1	±0.1nH, ±0.2nH, ±0.3nH	14	500	19	25	39	41	45	7500	0.48	320	0.30 ±0.03
HKQ0603U4N2□-T	RoHS	4.2	±0.1nH, ±0.2nH, ±0.3nH	14	500	18	24	37	39	43	7300	0.48	320	0.30 ±0.03
HKQ0603U4N3□-T	RoHS	4.3	±0.2nH, ±0.3nH	14	500	18	24	37	39	43	6500	0.48	320	0.30 ±0.03
HKQ0603U4N6□-T	RoHS	4.6	±0.2nH, ±0.3nH	14	500	18	24	37	39	42	6500	0.39	360	0.30 ±0.03
HKQ0603U4N7□-T	RoHS	4.7	±0.2nH, ±0.3nH	14	500	19	24	37	39	42	6400	0.42	350	0.30 ±0.03
HKQ0603U5N0□-T	RoHS	5.0	±0.2nH, ±0.3nH	14	500	19	24	37	39	42	6200	0.44	335	0.30 ±0.03
HKQ0603U5N1□-T	RoHS	5.1	±0.2nH, ±0.3nH	14	500	19	24	37	39	42	6100	0.45	330	0.30 ±0.03
HKQ0603U5N4□-T	RoHS	5.4	±0.2nH, ±0.3nH	14	500	18	24	36	38	42	5900	0.49	315	0.30 ±0.03
HKQ0603U5N6□-T	RoHS	5.6	±0.2nH, ±0.3nH	14	500	18	24	36	37	41	5500	0.47	325	0.30 ±0.03
HKQ0603U5N9□-T	RoHS	5.9	±0.2nH, ±0.3nH	14	500	18	23	35	36	39	5500	0.47	325	0.30 ±0.03
HKQ0603U6N2□-T	RoHS	6.2	±0.2nH, ±0.3nH	14	500	18	23	35	36	39	5100	0.52	305	0.30 ±0.03
HKQ0603U6N5□-T	RoHS	6.5	±0.2nH, ±0.3nH	14	500	18	23	35	36	39	5100	0.52	305	0.30 ±0.03
HKQ0603U6N8□-T	RoHS	6.8	±3%, ±5%	14	500	18	23	35	36	39	4800	0.55	305	0.30 ±0.03
HKQ0603U7N1□-T	RoHS	7.1	±3%, ±5%	14	500	18	23	35	36	39	4800	0.55	305	0.30 ±0.03
HKQ0603U7N5□-T	RoHS	7.5	±3%, ±5%	14	500	18	23	34	35	38	4600	0.55	305	0.30 ±0.03
HKQ0603U7N8□-T	RoHS	7.8	±3%, ±5%	14	500	17	22	33	34	36	4600	0.51	310	0.30 ±0.03
HKQ0603U8N2□-T	RoHS	8.2	±3%, ±5%	14	500	17	22	33	34	36	4300	0.57	290	0.30 ±0.03
HKQ0603U8N5□-T	RoHS	8.5	±3%, ±5%	14	500	17	22	33	34	36	4300	0.57	290	0.30 ±0.03
HKQ0603U9N1□-T	RoHS	9.1	±3%, ±5%	14	500	17	22	33	34	36	4000	0.65	270	0.30 ±0.03
HKQ0603U9N4□-T	RoHS	9.4	±3%, ±5%	14	500	17	22	33	34	36	4000	0.73	250	0.30 ±0.03
HKQ0603U10N□-T	RoHS	10	±3%, ±5%	14	500	17	22	33	34	36	3800	0.85	230	0.30 ±0.03
HKQ0603U12N□-T	RoHS	12	±3%, ±5%	14	500	17	22	31	32	33	3300	0.85	230	0.30 ±0.03
HKQ0603U15N□-T	RoHS	15	±3%, ±5%	14	500	17	21	28	29	29	2600	0.89	220	0.30 ±0.03
HKQ0603U18N□-T	RoHS	18	±3%, ±5%	14	500	16	21	26	26	25	2300	1.05	205	0.30 ±0.03
HKQ0603U22N□-T	RoHS	22	±3%, ±5%	14	500	16	21	26	26	24	1900	1.29	190	0.30 ±0.03

※电感值公差标在型号□中。

● AQ 105

型号	EHS	标称电感值 [nH]	电感量公差 ※)	Q值 (min.)	LQ 测试频率 [MHz]	Q (Typical) 频率 [Hz]					自共振频率 [MHz] (min.)		直流电阻 DC [Ω]		额定电流 [mA] (max.)		厚度 [mm]
						300	800	900	1500	1800	(min.)	(typ.)	(max.)	(typ.)	-55~ +125°C	-55~ +85°C	
AQ 105 1N0□-T	RoHS	1.0	±0.3nH	8	100	53	129	147	217	244	10000	> 13000	0.07	0.014	710	930	0.50 ±0.05
AQ 105 1N2□-T	RoHS	1.2	±0.3nH	8	100	45	97	110	156	177	10000	> 13000	0.07	0.016	710	930	0.50 ±0.05
AQ 105 1N5□-T	RoHS	1.5	±0.3nH	8	100	35	69	76	104	116	8000	> 13000	0.07	0.030	710	930	0.50 ±0.05
AQ 105 1N8□-T	RoHS	1.8	±0.3nH	8	100	32	61	66	92	100	6000	11000	0.07	0.035	710	930	0.50 ±0.05
AQ 105 2N0□-T	RoHS	2.0	±0.3nH	8	100	38	68	73	94	103	6000	10500	0.08	0.035	660	870	0.50 ±0.05
AQ 105 2N2□-T	RoHS	2.2	±0.3nH	8	100	37	67	71	92	101	6000	10000	0.08	0.040	660	870	0.50 ±0.05
AQ 105 2N4□-T	RoHS	2.4	±0.3nH	8	100	34	54	59	74	86	6000	9600	0.09	0.050	630	820	0.50 ±0.05
AQ 105 2N7□-T	RoHS	2.7	±0.3nH	8	100	30	49	52	67	73	6000	9200	0.09	0.060	630	820	0.50 ±0.05
AQ 105 3N0□-T	RoHS	3.0	±0.3nH	8	100	31	51	54	70	76	6000	8700	0.11	0.070	570	740	0.50 ±0.05
AQ 105 3N3□-T	RoHS	3.3	±0.3nH	8	100	32	54	57	72	79	6000	8300	0.12	0.075	540	710	0.50 ±0.05
AQ 105 3N6□-T	RoHS	3.6	±0.3nH	8	100	33	53	56	71	77	5000	7800	0.14	0.080	500	650	0.50 ±0.05
AQ 105 3N9□-T	RoHS	3.9	±0.3nH	8	100	34	53	56	70	76	4000	7300	0.15	0.085	490	630	0.50 ±0.05
AQ 105 4N3□-T	RoHS	4.3	±0.3nH	8	100	29	47	50	64	71	4000	6900	0.16	0.090	470	610	0.50 ±0.05
AQ 105 4N7□-T	RoHS	4.7	±0.3nH	8	100	30	48	51	65	72	4000	6400	0.17	0.095	450	590	0.50 ±0.05
AQ 105 5N1□-T	RoHS	5.1	±0.3nH	8	100	30	48	51	64	71	4000	6300	0.19	0.110	430	560	0.50 ±0.05
AQ 105 5N6□-T	RoHS	5.6	±0.3nH	8	100	30	48	51	65	71	4000	6200	0.20	0.120	420	550	0.50 ±0.05
AQ 105 6N2□-T	RoHS	6.2	±0.3nH	8	100	31	49	52	66	72	3900	6100	0.22	0.130	400	520	0.50 ±0.05
AQ 105 6N8□-T	RoHS	6.8	±5%	8	100	28	44	49	59	64	3900	6000	0.23	0.130	390	510	0.50 ±0.05
AQ 105 7N5□-T	RoHS	7.5	±5%	8	100	28	45	50	60	65	3700	5500	0.25	0.135	370	490	0.50 ±0.05
AQ 105 8N2□-T	RoHS	8.2	±5%	8	100	29	46	50	62	66	3600	5000	0.27	0.140	360	470	0.50 ±0.05
AQ 105 9N1□-T	RoHS	9.1	±5%	8	100	29	45	49	59	62	3400	4800	0.29	0.150	350	450	0.50 ±0.05
AQ 105 10N□-T	RoHS	10	±5%	8	100	28	45	48	57	60	3200	4500	0.31	0.165	330	440	0.50 ±0.05
AQ 105 12N□-T	RoHS	12	±5%	8	100	26	40	45	51	52	2700	4300	0.39	0.165	300	390	0.50 ±0.05
AQ 105 15N□-T	RoHS	15	±5%	8	100	25	38	42	49	51	2300	4100	0.45	0.190	280	360	0.50 ±0.05

※电感值公差标在型号□中。上述以外的电感量公差值，请另外咨询。

Multilayer chip inductors

Multilayer chip inductors for high frequency, Multilayer chip bead inductors

Multilayer common mode choke coils (MC series F type)

Metal Multilayer Chip Power Inductors (MCOIL™ MC series)

PACKAGING

① Minimum Quantity

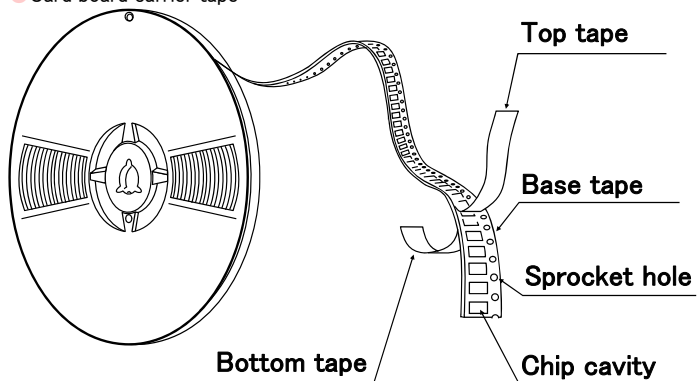
● Tape & Reel Packaging

Type	Thickness mm (inch)	Standard Quantity [pcs]	
		Paper Tape	Embossed Tape
CK1608 (0603)	0.8 (0.031)	4000	—
CK2125 (0805)	0.85 (0.033)	4000	—
	1.25 (0.049)	—	2000
CKS2125 (0805)	0.85 (0.033)	4000	—
	1.25 (0.049)	—	2000
CKP1608 (0603)	0.8 (0.031)	4000	—
CKP2012 (0805)	0.9 (0.035)	—	3000
CKP2016 (0806)	0.9 (0.035)	—	3000
CKP2520 (1008)	0.7 (0.028)	—	3000
	0.9 (0.035)	—	3000
	1.1 (0.043)	—	2000
NM2012 (0805)	0.9 (0.035)	—	3000
NM2520 (1008)	0.9 (0.035)	—	3000
	1.1 (0.043)	—	2000
LK1005 (0402)	0.5 (0.020)	10000	—
LK1608 (0603)	0.8 (0.031)	4000	—
LK2125 (0805)	0.85 (0.033)	4000	—
	1.25 (0.049)	—	2000
HK0603 (0201)	0.3 (0.012)	15000	—
HK1005 (0402)	0.5 (0.020)	10000	—
HK1608 (0603)	0.8 (0.031)	4000	—
HK2125 (0805)	0.85 (0.033)	—	4000
	1.0 (0.039)	—	3000
HKQ0402 (01005)	0.2 (0.008)	20000	40000
HKQ0603W (0201)	0.3 (0.012)	15000	—
HKQ0603S (0201)	0.3 (0.012)	15000	—
HKQ0603U (0201)	0.3 (0.012)	15000	—
AQ105 (0402)	0.5 (0.020)	10000	—
BK0402 (01005)	0.2 (0.008)	20000	—
BK0603 (0201)	0.3 (0.012)	15000	—
BK1005 (0402)	0.5 (0.020)	10000	—
BKH0603 (0201)	0.3 (0.012)	15000	—
BKH1005 (0402)	0.5 (0.020)	10000	—
BK1608 (0603)	0.8 (0.031)	4000	—
BK2125 (0805)	0.85 (0.033)	4000	—
	1.25 (0.049)	—	2000
BK2010 (0804)	0.45 (0.018)	4000	—
BK3216 (1206)	0.8 (0.031)	—	4000
BKP0402 (01005)	0.2 (0.008)	20000	—
BKP0603 (0201)	0.3 (0.012)	15000	—
BKP1005 (0402)	0.5 (0.020)	10000	—
BKP1608 (0603)	0.8 (0.031)	4000	—
BKP2125 (0805)	0.85 (0.033)	4000	—
MCF0605 (0202)	0.3 (0.012)	15000	—
MCF0806 (0302)	0.4 (0.016)	—	10000
MCF1210 (0504)	0.55 (0.022)	—	5000
MCF2010 (0804)	0.45 (0.018)	—	4000
MCFFK1608 (0603)	0.6 (0.024)	4000	—
MCFE1608 (0603)	0.65 (0.026)	4000	—
MCKK1608 (0603)	1.0 (0.039)	—	3000
MCHK2012 (0806)	0.8 (0.031)	4000	—
MCKK2012 (0805)	1.0 (0.039)	—	3000

► This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification.
For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>) .

②Taping material

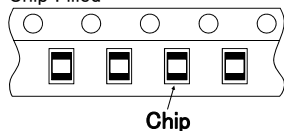
● Card board carrier tape



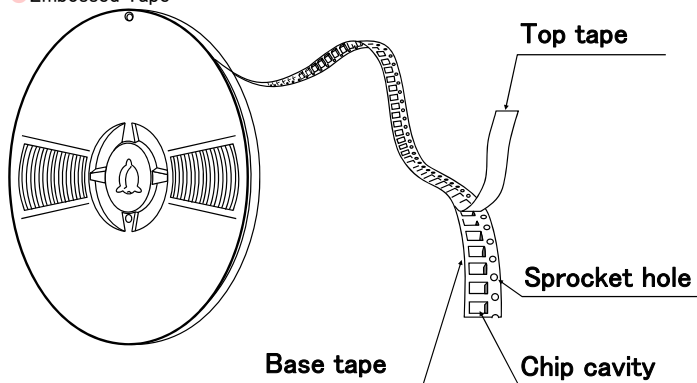
CK	1608
CKP	1608
CK	2125
CKS	2125
LK	1005
LK	1608
LK	2125
HK	0603
HK	1005
HK	1608
HKQ	0402
HKQ	0603
AQ	105

BK	0402
BK	0603
BK	1005
BK	1608
BK	2125
BK	2010
BKP	0402
BKP	0603
BKP	1005
BKP	1608
BKP	2125
BKH	0603
BKH	1005
MCF	0605
MC	1608
MC	2012

Chip Filled



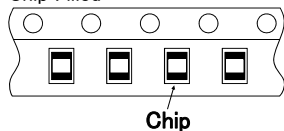
● Embossed Tape



CK	2125
CKS	2125
CKP	2012
CKP	2016
CKP	2520
NM	2012
NM	2520
LK	2125
HKQ	0402
HK	2125

BK	2125
BK	3216
MCF	0806
MCF	1210
MCF	2010
MC	1608
MC	2012

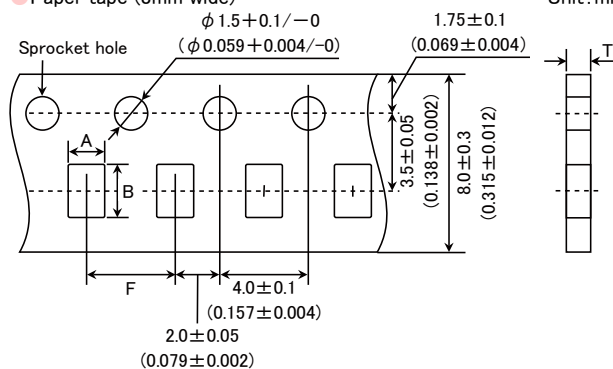
Chip Filled



③Taping Dimensions

● Paper tape (8mm wide)

Unit: mm (inch)

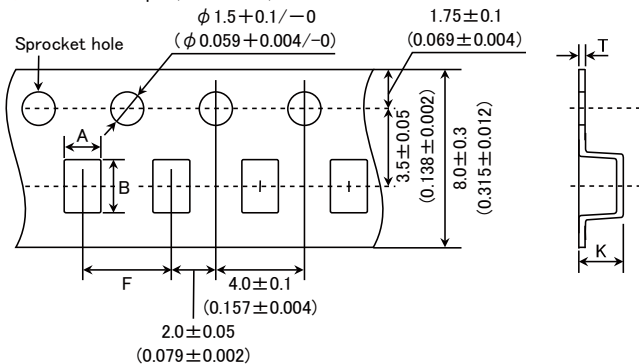


Type	Thickness mm (inch)	Chip cavity		Insertion Pitch	Tape Thickness
		A	B	F	T
CK1608 (0603)	0.8 (0.031)	1.0±0.2 (0.039±0.008)	1.8±0.2 (0.071±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
CK2125 (0805)	0.85 (0.033)	1.5±0.2 (0.059±0.008)	2.3±0.2 (0.091±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
CKS2125 (0805)	0.85 (0.033)	1.5±0.2 (0.059±0.008)	2.3±0.2 (0.091±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
CKP1608 (0603)	0.8 (0.031)	1.0±0.2 (0.039±0.008)	1.8±0.2 (0.071±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
LK1005 (0402)	0.5 (0.020)	0.65±0.1 (0.026±0.004)	1.15±0.1 (0.045±0.004)	2.0±0.05 (0.079±0.002)	0.8max (0.031max)
LK1608 (0603)	0.8 (0.031)	1.0±0.2 (0.039±0.008)	1.8±0.2 (0.071±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
LK2125 (0805)	0.85 (0.033)	1.5±0.2 (0.059±0.008)	2.3±0.2 (0.091±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
HK0603 (0201)	0.3 (0.012)	0.40±0.06 (0.016±0.002)	0.70±0.06 (0.028±0.002)	2.0±0.05 (0.079±0.002)	0.45max (0.018max)
HK1005 (0402)	0.5 (0.020)	0.65±0.1 (0.026±0.004)	1.15±0.1 (0.045±0.004)	2.0±0.05 (0.079±0.002)	0.8max (0.031max)
HK1608 (0603)	0.8 (0.031)	1.0±0.2 (0.039±0.008)	1.8±0.2 (0.071±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
HKQ0402 (01005)	0.2 (0.008)	0.25±0.04 (0.010±0.002)	0.45±0.04 (0.018±0.002)	2.0±0.05 (0.079±0.002)	0.36max (0.014max)
HKQ0603W (0201)	0.3 (0.012)	0.40±0.06 (0.016±0.002)	0.70±0.06 (0.028±0.002)	2.0±0.05 (0.079±0.002)	0.45max (0.018max)
HKQ0603S (0201)	0.3 (0.012)	0.40±0.06 (0.016±0.002)	0.70±0.06 (0.028±0.002)	2.0±0.05 (0.079±0.002)	0.45max (0.018max)
HKQ0603U (0201)	0.3 (0.012)	0.40±0.06 (0.016±0.002)	0.70±0.06 (0.028±0.002)	2.0±0.05 (0.079±0.002)	0.45max (0.018max)
AQ105 (0402)	0.5 (0.020)	0.75±0.1 (0.030±0.004)	1.15±0.1 (0.045±0.004)	2.0±0.05 (0.079±0.002)	0.8max (0.031max)
BK0402 (01005)	0.2 (0.008)	0.25±0.04 (0.010±0.002)	0.45±0.04 (0.018±0.002)	2.0±0.05 (0.079±0.002)	0.36max (0.014max)
BK0603 (0201)	0.3 (0.012)	0.40±0.06 (0.016±0.002)	0.70±0.06 (0.028±0.002)	2.0±0.05 (0.079±0.002)	0.45max (0.018max)
BK1005 (0402)	0.5 (0.020)	0.65±0.1 (0.026±0.004)	1.15±0.1 (0.045±0.004)	2.0±0.05 (0.079±0.002)	0.8max (0.031max)
BK1608 (0603)	0.8 (0.031)	1.0±0.2 (0.039±0.008)	1.8±0.2 (0.071±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
BK2125 (0805)	0.85 (0.033)	1.5±0.2 (0.059±0.008)	2.3±0.2 (0.091±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
BK2010 (0804)	0.45 (0.018)	1.2±0.1 (0.047±0.004)	2.17±0.1 (0.085±0.004)	4.0±0.1 (0.157±0.004)	0.8max (0.031max)
BKP0402 (01005)	0.2 (0.008)	0.25±0.04 (0.010±0.002)	0.45±0.04 (0.018±0.002)	2.0±0.05 (0.079±0.002)	0.36max (0.014max)
BKP0603 (0201)	0.3 (0.012)	0.40±0.06 (0.016±0.002)	0.70±0.06 (0.028±0.002)	2.0±0.05 (0.079±0.002)	0.45max (0.018max)
BKP1005 (0402)	0.5 (0.020)	0.65±0.1 (0.026±0.004)	1.15±0.1 (0.045±0.004)	2.0±0.05 (0.079±0.002)	0.8max (0.031max)
BKP1608 (0603)	0.8 (0.031)	1.0±0.2 (0.039±0.008)	1.8±0.2 (0.071±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
BKP2125 (0805)	0.85 (0.033)	1.5±0.2 (0.059±0.008)	2.3±0.2 (0.091±0.008)	4.0±0.1 (0.157±0.004)	1.1max (0.043max)
BKH0603 (0201)	0.3 (0.012)	0.40±0.06 (0.016±0.002)	0.70±0.06 (0.028±0.002)	2.0±0.05 (0.079±0.002)	0.45max (0.018max)
BKH1005 (0402)	0.5 (0.020)	0.65±0.1 (0.026±0.004)	1.15±0.1 (0.045±0.004)	2.0±0.05 (0.079±0.002)	0.8max (0.031max)
MCF0605 (0202)	0.3 (0.012)	0.62±0.03 (0.024±0.001)	0.77±0.03 (0.030±0.001)	2.0±0.05 (0.079±0.002)	0.45max (0.018max)
MCFK1608 (0603)	0.6 (0.024)	1.1±0.05 (0.043±0.002)	1.9±0.05 (0.075±0.002)	4.0±0.1 (0.157±0.004)	0.72max (0.028max)
MCFE1608 (0603)	0.65 (0.026)	1.1±0.05 (0.043±0.002)	1.9±0.05 (0.075±0.002)	4.0±0.1 (0.157±0.004)	0.9max (0.035max)
MCHK2012 (0805)	0.8 (0.031)	1.55±0.2 (0.061±0.008)	2.3±0.2 (0.091±0.008)	4.0±0.1 (0.157±0.004)	0.9max (0.035max)

Unit : mm (inch)

● Embossed Tape (8mm wide)

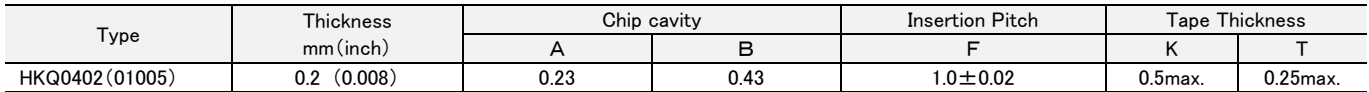
Unit : mm (inch)



Type	Thickness mm (inch)	Chip cavity		Insertion Pitch F	Tape Thickness	
		A	B		K	T
CK2125 (0805)	1.25 (0.049)	1.5 ± 0.2 (0.059 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	2.0 (0.079)	0.3 (0.012)
CKS2125 (0805)	1.25 (0.049)	1.5 ± 0.2 (0.059 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	2.0 (0.079)	0.3 (0.012)
CKP2012 (0805)	0.9 (0.035)	1.55 ± 0.2 (0.061 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	1.3 (0.051)	0.3 (0.012)
CKP2016 (0806)	0.9 (0.035)	1.8 ± 0.1 (0.071 ± 0.004)	2.2 ± 0.1 (0.087 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	1.3 (0.051)	0.25 (0.01)
CKP2520 (1008)	0.7 (0.028)	2.3 ± 0.1 (0.091 ± 0.004)	2.8 ± 0.1 (0.110 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	1.4 (0.055)	0.3 (0.012)
	0.9 (0.035)				1.4 (0.055)	
	1.1 (0.043)				1.7 (0.067)	
NM2012 (0805)	0.9 (0.035)	1.55 ± 0.2 (0.061 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	1.3 (0.051)	0.3 (0.012)
NM2520 (1008)	0.9 (0.035)	2.3 ± 0.1 (0.091 ± 0.004)	2.8 ± 0.1 (0.110 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	1.4 (0.055)	0.3 (0.012)
	1.1 (0.043)				1.7 (0.067)	
LK2125 (0805)	1.25 (0.049)	1.5 ± 0.2 (0.059 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	2.0 (0.079)	0.3 (0.012)
HK2125 (0805)	0.85 (0.033)	1.5 ± 0.2 (0.059 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	1.5 (0.059)	0.3 (0.012)
	1.0 (0.039)				2.0 (0.079)	
BK2125 (0805)	1.25 (0.049)	1.5 ± 0.2 (0.059 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	2.0 (0.079)	0.3 (0.012)
BK3216 (1206)	0.8 (0.031)	1.9 ± 0.1 (0.075 ± 0.004)	3.5 ± 0.1 (0.138 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	1.4 (0.055)	0.3 (0.012)
MCF0806 (0302)	0.4 (0.016)	0.75 ± 0.05 (0.030 ± 0.002)	0.95 ± 0.05 (0.037 ± 0.002)	2.0 ± 0.05 (0.079 ± 0.002)	0.55 (0.022)	0.3 (0.012)
MCF1210 (0504)	0.55 (0.022)	1.15 ± 0.05 (0.045 ± 0.002)	1.40 ± 0.05 (0.055 ± 0.002)	4.0 ± 0.1 (0.157 ± 0.004)	0.65 (0.026)	0.3 (0.012)
MCF2010 (0804)	0.45 (0.018)	1.1 ± 0.1 (0.043 ± 0.004)	2.3 ± 0.1 (0.091 ± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	0.85 (0.033)	0.3 (0.012)
MCKK1608 (0603)	1.0 (0.039)	1.1 ± 0.1 (0.043 ± 0.004)	1.95 ± 0.1 (± 0.004)	4.0 ± 0.1 (0.157 ± 0.004)	1.4 (0.055)	0.25 (0.01)
MCKK2012 (0805)	1.0 (0.039)	1.55 ± 0.2 (0.061 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	1.35 (0.053)	0.25 (0.010)

Unit : mm (inch)

Unit: mm (inch)



Multilayer chip inductors

Multilayer chip inductors for high frequency, Multilayer chip bead inductors

Multilayer common mode choke coils (MC series F type)

Metal Multilayer Chip Power Inductors (MCOIL™ MC series)

RELIABILITY DATA

1. Operating Temperature Range

Specified Value	BK0402		- 55 ~ + 125℃
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY	BK2010	
		BK3216	
	BKP0402		- 55 ~ + 85℃
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		- 40 ~ + 85℃
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		- 40 ~ + 85℃
	CK2125		
	CKS2125		
	CKP1608		
	CKP2012		
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		
	LK1005		
	LK1608		
	LK2125		
	HKQ0402		- 55 ~ + 125℃
	HK0603		
HK1005			
HK1608		- 40 ~ + 85℃	
HK2125			
HKQ0603W/HKQ0603S/HKQ0603U		- 55 ~ + 125℃	
AQ105			
MCFK1608		- 40 ~ + 125℃ (Including self-generated heat)	
MCFE1608			
MCKK1608			
MCHK2012			
MCKK2012			

2. Storage Temperature Range		
Specified Value	BK0402	-55 ~ +125°C
	BK0603	
	BK1005	
	BKH0603	
	BKH1005	
	BK1608	
	BK2125	
	ARRAY	
	BK2010	-55 ~ +85°C
	BK3216	
	BKP0402	
	BKP0603	
	BKP1005	
	BKP1608	
	BKP2125	
	MCF 0605	-40 ~ +85°C
	MCF 0806	
	MCF 1210	
	MCF 2010	
	CK1608	-40 ~ +85°C
	CK2125	
	CKS2125	
	CKP1608	
	CKP2012	
	CKP2016	
	CKP2520	
	NM2012	
	NM2520	
	LK1005	
	LK1608	
	LK2125	
	HKQ0402	-55 ~ +125°C
	HK0603	
	HK1005	
	HK1608	-40 ~ +85°C
	HK2125	
	HKQ0603W/HKQ0603S/HKQ0603U	-55 ~ +125°C
	AQ105	
	MCFK1608	-40 ~ +85°C
	MCFE1608	
	MCKK1608	
	MCHK2012	
	MCKK2012	

3. Rated Current

Specified Value	BK0402		150~750mA DC
	BK0603		100~500mA DC
	BK1005		120~1000mA DC
	BKH0603		115~450mA DC
	BKH1005		200~300mA DC
	BK1608		150~1500mA DC
	BK2125		200~1200mA DC
	ARRAY	BK2010	100mA DC
		BK3216	100~200mA DC
	BKP0402		0.55~1.1A DC
	BKP0603		0.8~1.8A DC
	BKP1005		0.8~2.4A DC
	BKP1608		1.0~3.0A DC
	BKP2125		1.5~4.0A DC
	MCF 0605		0.05A DC
	MCF 0806		0.1~0.13A DC
	MCF 1210		0.1~0.16A DC
	MCF 2010		0.1A DC
	CK1608		50~60mA DC
	CK2125		60~500mA DC
	CKS2125		110~280mA DC
	CKP1608		0.35~0.9A DC
	CKP2012		0.7~1.7A DC
	CKP2016		0.9~1.6A DC
	CKP2520		1.1~1.8A DC
	NM2012		1.0~1.2A DC
	NM2520		0.9~1.2A DC
	LK1005		20~25mA DC
	LK1608		1~150mA DC
	LK2125		5~300mA DC
	HK0603		60~470mA DC
	HK1005		110~300mA DC (-55~+125°C) 200~900mA DC (-55~+85°C)
	HK1608		150~300mA DC
	HK2125		300mA DC
	HKQ0402		100~500mA DC
	HKQ0603W		100~850mA DC
	HKQ0603S		130~600mA DC
	HKQ0603U		190~900mA DC
	AQ105		280~710mA DC
	MCFK1608		Idc1 : 1500~2300mA DC, Idc2 : 900~2100mA DC
	MCFE1608		Idc1 : 1400~2600mA DC, Idc2 : 800~1500mA DC
	MCKK1608		Idc1 : 2800~2000mA DC Idc2 : 1300~2600mA DC
	MCHK2012		Idc1 : 2260~4320mA DC, Idc2 : 1470~3600mA DC
	MCKK2012		Idc1 : 3600~6200mA DC, Idc2 : 2100~4000mA DC

Definition of rated current:

- In the CK, CKS and BK Series, the rated current is the value of current at which the temperature of the element is increased within 20°C.
- In the BK Series P type, CK Series P type, NM Series, the rated current is the value of current at which the temperature of the element is increased within 40°C.
- In the LK, HK, HKQ0603, and AQ Series, the rated current is either the DC value at which the initial L value is decreased within 5% with the application of DC bias, or the value of current at which the temperature of the element is increased within 20°C.
- In the HKQ0402(~9N1), the rated current is either the DC value at which the initial L value is decreased within 5% with the application of DC bias, or the value of current at which the temperature of the element is increased within 20°C.
- In the HKQ0402(10N~), the rated current is either the DC value at which the initial L value is decreased within 5% with the application of DC bias, or the value of current at which the temperature of the element is increased within 25°C.
- In the MC Series, Idc1 is the DC value at which the initial L value is decreased within 30% and Idc2 is the DC value at which the temperature of element is increased within 40°C by the application of DC bias. (at 20°C)

4. Impedance				
Specified Value	BK0402		10~330 Ω ±5 Ω(10 Ω, ±25%(Other))	
	BK0603		10~1200 Ω ±25%	
	BK1005		10~1800 Ω ±25%	
	BKH0603		25~1500 Ω ±25%	
	BKH1005		600~1800 Ω ±25%	
	BK1608		22~2500 Ω ±25%	
	BK2125		15~2500 Ω ±25%	
	ARRAY	BK2010	5~1000 Ω ±25%	
		BK3216	60~1000 Ω ±25%	
	BKP0402		10~33 Ω ±5 Ω(10 Ω, ±25%(Other))	
	BKP0603		10~120 Ω ±5 Ω(10 Ω, ±25%(Other))	
	BKP1005		10~330 Ω ±5 Ω(EM100), ±25%(Other))	
	BKP1608		33~470 Ω ±25%	
	BKP2125		33~330 Ω ±25%	
	MCF 0605		12~90 Ω ±5 Ω(12 Ω, ±20%(35 Ω90 Ω,±25%(60 Ω	
	MCF 0806		12~90 Ω ±5 Ω(12 Ω, ±20%(47 Ω90 Ω,±25%(30 Ω	
	MCF 1210		40~90 Ω ±20%(2H900), ±25%(Other))	
	MCF 2010		90 Ω ±25%	
	CK1608		—	
	CK2125			
	CKS2125			
	CKP1608			
	CKP2012			
	CKP2016			
	CKP2520			
	NM2012			
	NM2520			
	LK1005			
	LK1608			
	LK2125			
	HKQ0402			
	HK0603			
	HK1005			
	HK1608			
	HK2125			
	HKQ0603W/HKQ0603S/HKQ0603U			
	AQ105			
	MCFK1608			
	MCFE1608			
	MCKK1608			
	MCHK2012			
	MCKK2012			
Test Methods and Remarks	BK0402Series, BKP0402Series Measuring frequency : 100±1MHz Measuring equipment : E4991A(or its equivalent) Measuring jig : 16197A(or its equivalent)			
	BK0603Series, BKP0603Series Measuring frequency : 100±1MHz Measuring equipment : 4291A(or its equivalent) Measuring jig : 16193A(or its equivalent)			
	BK1005Series, BKP1005Series ,BKH1005Series Measuring frequency : 100±1MHz Measuring equipment : 4291A(or its equivalent) Measuring jig : 16192A(or its equivalent), 16193A(or its equivalent)			
	BK1608・2125Series, BKP1608・2125Series Measuring frequency : 100±1MHz Measuring equipment : 4291A(or its equivalent), 4195A(or its equivalent) Measuring jig : 16092A(or its equivalent) or 16192A(or its equivalent)/HW			
	BK2010・3216Series, MCF Series Measuring frequency : 100±1MHz Measuring equipment : 4291A(or its equivalent), 4195A(or its equivalent) Measuring jig : 16192A(or its equivalent)			

5. Inductance		
Specified Value	BK0402	
	BK0603	
	BK1005	
	BKH0603	
	BKH1005	
	BK1608	
	BK2125	
	ARRAY	BK2010 BK3216
	BKP0402	
	BKP0603	
	BKP1005	
	BKP1608	
	BKP2125	
	MCF 0605	
	MCF 0806	
	MCF 1210	
	MCF 2010	
	CK1608	4.7~10.0 μ H: $\pm$ 20%
	CK2125	0.1~10.0 μ H: $\pm$ 20%
	CKS2125	1.0~10.0 μ H: $\pm$ 20%
	CKP1608	0.33~2.2 μ H: $\pm$ 20%
	CKP2012	0.47~4.7 μ H: $\pm$ 20%
	CKP2016	0.47~4.7 μ H: $\pm$ 20%
	CKP2520	0.47~4.7 μ H: $\pm$ 20%
	NM2012	0.82~1.0 μ H: $\pm$ 20%
	NM2520	1.0~2.2 μ H: $\pm$ 20%
	LK1005	0.12~2.2 μ H: $\pm$ 10 or 20%
	LK1608	0.047~33.0 μ H: $\pm$ 20% 0.10~12.0 μ H: $\pm$ 10%
	LK2125	0.047~33.0 μ H: $\pm$ 20% 0.10~12.0 μ H: $\pm$ 10%
	HK0603	1.0~6.2nH: $\pm$ 0.3nH 6.8~100nH: $\pm$ 5%
	HK1005	1.0~6.2nH: $\pm$ 0.3nH 6.8~270nH: $\pm$ 5%
	HK1608	1.0~5.6nH: $\pm$ 0.3nH 6.8~470nH: $\pm$ 5%
	HK2125	1.5~5.6nH: $\pm$ 0.3nH 6.8~470nH: $\pm$ 5%
	HKQ0402	0.5~3.9nH: $\pm$ 0.1 or 0.2 or 0.3nH 4.3~5.6nH: $\pm$ 0.3nH or 3% or 5% 6.2~47nH: $\pm$ 3 or 5%
	HKQ0603W	0.6~3.9nH: $\pm$ 0.1 or 0.2 or 0.3nH 4.3~6.2nH: $\pm$ 0.2 or 0.3nH or 3 or 5% 6.8~30nH: $\pm$ 3 or 5% 33~100nH: $\pm$ 5%
	HKQ0603S	0.6~6.2nH: $\pm$ 0.2 or 0.3nH 6.8~22nH: $\pm$ 3 or 5%
	HKQ0603U	0.6~4.2nH: $\pm$ 0.1 or 0.2 or 0.3nH 4.3~6.5nH: $\pm$ 0.2 or 0.3nH 6.8~22nH: $\pm$ 3 or 5%
	AQ105	1.0~6.2nH: $\pm$ 0.3nH 6.8~15nH: $\pm$ 5%
	MCFK1608	0.24~1.0 μ H: $\pm$ 20%
	MCFE1608	0.24~1.0 μ H: $\pm$ 20%
	MCKK1608	0.24~1.0 μ H: $\pm$ 20%
	MCHK2012	0.24~1.0 μ H: $\pm$ 20%
	MCKK2012	0.24~1.0 μ H: $\pm$ 20%
Test Methods and Remarks	CK, LK, CKP, NM, MC Series	
	Measuring frequency	: 2~4MHz (CK1608)
	Measuring frequency	: 2~25MHz (CK2125)
	Measuring frequency	: 2~10MHz (CKS2125)
	Measuring frequency	: 10~25MHz (LK1005)
	Measuring frequency	: 1~50MHz (LK1608)
	Measuring frequency	: 0.4~50MHz (LK2125)
	Measuring frequency	: 1MHz (CKP1608・CKP2012・CKP2016・CKP2520・NM2012・NM2520・MCFK1608・MCFE1608・MCHK2012・MCKK2012)
	Measuring equipment /jig	・4194A + 16085B + 16092A (or its equivalent) ・4195A + 41951 + 16092A (or its equivalent) ・4294A + 16192A (or its equivalent) ・4291A + 16193A (or its equivalent) /LK1005 ・4285A + 42841A + 42842C + 42851 - 61100 (or its equivalent) /CKP1608・CKP2012・CKP2016・CKP2520・NM2012・NM2520・MCFK1608・MCFE1608・MCKK1608・MCHK2012・MCKK2012
	Measuring current	・1mA rms (0.047~4.7 μ H) ・0.1mA rms (5.6~33 μ H)
	HK, HKQ, AQ Series	
	Measuring frequency	: 100MHz (HK0603・HK1005・AQ105)
	Measuring frequency	: 50/100MHz (HK1608・HK2125)
	Measuring frequency	: 500MHz (HKQ0603S・HKQ0603U)
	Measuring frequency	: 300/500MHz (HKQ0603W)
	Measuring frequency	: 100/500MHz (HKQ0402)
	Measuring equipment /jig	・4291A + 16197A (or its equivalent) /HK0603・AQ105 ・4291A + 16193A (or its equivalent) /HK1005 ・E4991A + 16197A (or its equivalent) /HKQ0603U・HKQ0603W ・4291A + 16092A + in-house made jig (or its equivalent) /HK1608・HK2125 ・E4991A + 16196D (or its equivalent) /HKQ0402

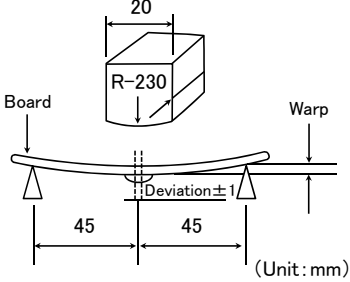
6. Q			
Specified Value	BK0402		—
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY	BK2010	
		BK3216	
	BKP0402		
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		
	CK2125		
	CKS2125		
	CKP1608		
	CKP2012		
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		
	LK1005		10～20 min.
	LK1608		10～35 min.
	LK2125		15～50 min.
	HK0603		4～5 min.
	HK1005		8 min.
	HK1608		8～12 min.
	HK2125		10～18 min.
	HKQ0402		3～8 min.
	HKQ0603W		6～15 min.
	HKQ0603S		10～13 min.
	HKQ0603U		14 min.
	AQ105		8 min.
	MCFK1608		—
	MCFE1608		
	MCKK1608		
	MCHK2012		
	MCKK2012		
Test Methods and Remarks	LK Series		
	Measuring frequency	: 10～25MHz (LK1005)	
	Measuring frequency	: 1～50MHz (LK1608)	
	Measuring frequency	: 0.4～50MHz (LK2125)	
	Measuring equipment /jig	:・4194A+16085B+16092A (or its equivalent) ・4195A+41951+16092A (or its equivalent) ・4294A+16192A (or its equivalent) ・4291A+16193A (or its equivalent)/LK1005	
	Measuring current	・1mA rms (0.047～4.7 μH) ・0.1mA rms (5.6～33 μH)	
	HK、HKQ、AQ Series		
	Measuring frequency	: 100MHz (HK0603・HK1005・AQ105)	
	Measuring frequency	: 50/100MHz (HK1608・HK2125)	
	Measuring frequency	: 500MHz (HKQ0603S・HKQ0603U)	
	Measuring frequency	: 300/500MHz (HKQ0603W)	
	Measuring frequency	: 100/500MHz (HKQ0402)	
	Measuring equipment /jig	:・4291A+16197A (or its equivalent)/HK0603・AQ105 ・4291A+16193A (or its equivalent)/HK1005 ・E4991A+16197A (or its equivalent)/HKQ0603S・HKQ0603U・HKQ0603W ・4291A+16092A + in-house made jig (or its equivalent)/HK1608, HK2125 ・E4991A+16196D (or its equivalent) HKQ0402	

7. DC Resistance		
Specified Value	BK0402	0.07~1.2 Ω max.
	BK0603	0.065~1.50 Ω max.
	BK1005	0.03~0.90 Ω max.
	BKH0603	0.26~3.20 Ω max.
	BKH1005	0.85~2.00 Ω max.
	BK1608	0.05~1.10 Ω max.
	BK2125	0.05~0.75 Ω max.
	ARRAY	BK2010
		BK3216
	BKP0402	0.05~0.15 Ω max.
	BKP0603	0.030~0.180 Ω max.
	BKP1005	0.0273~0.220 Ω max.
	BKP1608	0.025~0.18 Ω max.
	BKP2125	0.020~0.075 Ω max.
	MCF 0605	2.5~5.0 Ω max
	MCF 0806	1.5~5.0 Ω max.
	MCF 1210	1.5~4.5 Ω max.
	MCF 2010	4.5 Ω max.
	CK1608	0.45~0.85 Ω(±30%)
	CK2125	0.16~0.65 Ω max.
	CKS2125	0.12~0.52 Ω max.
	CKP1608	0.15~0.35 Ω max.
	CKP2012	0.08~0.28 Ω max.
	CKP2016	0.075~0.20 Ω max
	CKP2520	0.05~0.16 Ω max.
	NM2012	0.10~0.15 Ω max.
	NM2520	0.11~0.22 Ω max.
	LK1005	0.41~1.16 Ω max.
	LK1608	0.2~2.2 Ω max.
	LK2125	0.1~1.1 Ω max.
	HK0603	0.11~3.74 Ω max.
	HK1005	0.08~4.8 Ω max.
	HK1608	0.05~2.6 Ω max.
	HK2125	0.10~1.5 Ω max.
	HKQ0402	0.08~5.0 Ω max.
	HKQ0603W	0.07~4.1 Ω max.
	HKQ0603S	0.06~1.29 Ω max.
	HKQ0603U	0.06~1.29 Ω max.
	AQ105	0.07~0.45 Ω max.
	MCFK1608	0.050~0.224 Ω max.
	MCFE1608	0.100~0.340 Ω max.
	MCKK1608	0.038~0.123 Ω max.
	MCHK2012	0.024~0.111 Ω max.
	MCKK2012	0.025~0.090 Ω max.
Test Methods and Remarks	Measuring equipment: VOAC-7412, VOAC-7512, VOAC-7521 (made by Iwasaki Tsushinki), HIOKI3227 (or its equivalent)	

8. Self Resonance Frequency (SRF)				
Specified Value	BK0402		—	
	BK0603			
	BK1005			
	BKH0603			
	BKH1005			
	BK1608			
	BK2125			
	ARRAY	BK2010		
		BK3216		
	BKP0402			
	BKP0603			
	BKP1005			
	BKP1608			
	BKP2125			
	MCF 0605			
	MCF 0806			
	MCF 1210			
	MCF 2010			
	CK1608			17～25MHz min.
	CK2125			24～235MHz min.
	CKS2125			24～75MHz min.
	CKP1608			—
	CKP2012			
	CKP2016			
	CKP2520			
	NM2012			
	NM2520			
	LK1005			40～180MHz min.
	LK1608			9～260MHz min.
	LK2125			13～320MHz min.
	HK0603			900～10000MHz min.
	HK1005			400～10000MHz min.
	HK1608			300～10000MHz min.
	HK2125			200～4000MHz min.
	HKQ0402			1200～10000MHz min.
	HKQ0603W			800～10000MHz min.
	HKQ0603S			1900～10000MHz min.
	HKQ0603U			1900～10000MHz min.
	AQ105			2300～10000MHz min.
	MCFK1608			—
	MCFE1608			
	MCKK1608			
	MCHK2012			
	MCKK2012			
Test Methods and Remarks	LK、CK Series : Measuring equipment : 4195A (or its equivalent) Measuring jig : 41951 + 16092A (or its equivalent) HK、HKQ、AQ Series : Measuring equipment : 8719C (or its equivalent)・8753D (or its equivalent) / HK2125			

9. Temperature Characteristic			
Specified Value	BK0402		—
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY	BK2010	
		BK3216	
	BKP0402		
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		
	CK2125		
	CKS2125		
	CKP1608		
	CKP2012		
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		
	LK1005		
	LK1608		
	LK2125		
	HK0603		
	HK1005		
	HK1608		
	HK2125		
	HKQ0402		
HKQ0603W			
HKQ0603S			
HKQ0603U			
AQ105			
MCFK1608			
MCFE1608			
MCKK1608			
MCHK2012			
MCKK2012			
Test Methods and Remarks	HK、HKQ、AQ Series:		
	Temperature range	: −30~+85℃	
	Reference temperature	: +20℃	
	MC Series:		
	Temperature range	: −40~+85℃	
	Reference temperature	: +20℃	

10. Resistance to Flexure of Substrate

Specified Value	BK0402	No mechanical damage.
	BK0603	
	BK1005	
	BKH0603	
	BKH1005	
	BK1608	
	BK2125	
	ARRAY	
	BK2010	
	BK3216	
	BKP0402	
	BKP0603	
	BKP1005	
	BKP1608	
	BKP2125	
	MCF 0605	
	MCF 0806	
	MCF 1210	
	MCF 2010	
	CK1608	
	CK2125	
	CKS2125	
	CKP1608	
	CKP2012	
	CKP2016	
	CKP2520	
	NM2012	
	NM2520	
	LK1005	
	LK1608	
	LK2125	
	HK0603	
	HK1005	
	HK1608	
	HK2125	
	HKQ0402	
	HKQ0603W	
	HKQ0603S	
	HKQ0603U	
	AQ105	
	MCFK1608	
	MCFE1608	
	MCKK1608	
	MCHK2012	
	MCKK2012	
Test Methods and Remarks	Warp	: 2mm (BK Series without 0402 size, BKP, BKH1005, CK, CKS, CKP, LK, HK, HKQ0603S, HKQ0603U, AQ Series, MCF1210, MC Series)
	Testing board	: 1mm (BK0402, BKP0402, BKH0603, HKQ0402, HKQ0603W, MCF Series without 1210 size,)
	Thickness	: glass epoxy-resin substrate
		: 0.8mm
		
	(Unit: mm)	

11. Solderability		
Specified Value	BK0402	
	BK0603	
	BK1005	
	BKH0603	
	BKH1005	
	BK1608	
	BK2125	
	ARRAY	BK2010
		BK3216
	BKP0402	
	BKP0603	
	BKP1005	
	BKP1608	
	BKP2125	
	MCF 0605	
	MCF 0806	
	MCF 1210	
	MCF 2010	
	CK1608	
	CK2125	
	CKS2125	
	CKP1608	
	CKP2012	
	CKP2016	
	CKP2520	
	NM2012	
	NM2520	
	LK1005	
	LK1608	
	LK2125	
	HK0603	
	HK1005	
	HK1608	
	HK2125	
	HKQ0402	
	HKQ0603W	
	HKQ0603S	
	HKQ0603U	
	AQ105	
	MCFK1608	
	MCFE1608	
	MCKK1608	
	MCHK2012	
	MCKK2012	
Test Methods and Remarks	Solder temperature : 230±5℃ (JIS Z 3282 H60A or H63A) Solder temperature : 245±3℃ (Sn/3.0Ag/0.5Cu) Duration : 4±1 sec.	

12. Resistance to Soldering			
Specified Value	BK0402		Appearance : No significant abnormality Impedance change : Within $\pm 30\%$
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY	BK2010	
		BK3216	
	BKP0402		
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		Appearance : No significant abnormality Impedance change : Within $\pm 20\%$
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		Appearance : No significant abnormality Inductance change R10~4R7 : Within $\pm 10\%$ 6R8~100 : Within $\pm 15\%$ CKS2125 : Within $\pm 20\%$ CKP1608、CKP2012、CKP2016、CKP2520、NM2012、NM2520 : Within $\pm 30\%$
	CK2125		
	CKS2125		
	CKP1608		
	CKP2012		
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		Appearance : No significant abnormality Inductance change : Within $\pm 15\%$
	LK1005		
	LK1608		
	LK2125		
	HK0603		Appearance : No significant abnormality Inductance change : Within $\pm 5\%$
	HK1005		
	HK1608		
	HK2125		
	HKQ0402		
	HKQ0603W		
	HKQ0603S		
	HKQ0603U		
	AQ105		
	MCFK1608		Appearance : No significant abnormality Inductance change : Within $\pm 10\%$
	MCFE1608		
	MCKK1608		
	MCHK2012		
	MCKK2012		
Test Methods and Remarks	Solder temperature	: $260 \pm 5^{\circ}\text{C}$	
	Duration	: 10 ± 0.5 sec.	
	Preheating temperature	: 150 to 180°C	
	Preheating time	: 3 min.	
	Flux	: Immersion into methanol solution with colophony for 3 to 5 sec.	
	Recovery	: 2 to 3 hrs of recovery under the standard condition after the test. (See Note 1)	
(Note 1) When there are questions concerning measurement result; measurement shall be made after 48 ± 2 hrs of recovery under the standard condition.			

13. Thermal Shock			
Specified Value	BK0402		Appearance: No significant abnormality Impedance change: Within $\pm 30\%$
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY	BK2010	
		BK3216	
	BKP0402		
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		Appearance: No significant abnormality Impedance change: Within $\pm 20\%$
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		Appearance: No significant abnormality Inductance change: Within $\pm 20\%$ Q change: Within $\pm 30\%$
	CK2125		
	CKS2125		Appearance: No significant abnormality Inductance change: Within $\pm 20\%$
	CKP1608		
	CKP2012		Appearance: No significant abnormality Inductance change: Within $\pm 30\%$
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		
	LK1005		Appearance: No significant abnormality Inductance change: Within $\pm 10\%$ Q change: Within $\pm 30\%$
	LK1608		
	LK2125		
	HK0603		Appearance: No significant abnormality Inductance change: Within $\pm 10\%$ Q change: Within $\pm 20\%$
	HK1005		
	HK1608		
	HK2125		
	HKQ0402		
	HKQ0603W		
	HKQ0603S		
	HKQ0603U		
	AQ105		
	MCFK1608		Appearance: No significant abnormality Inductance change: Within $\pm 10\%$
	MCFE1608		
	MCKK1608		
	MCHK2012		
	MCKK2012		
Test Methods and Remarks	Conditions for 1 cycle		
	Step	temperature (°C)	time (min.)
	1	Minimum operating temperature $+0/-3$	30 ± 3
	2	Room temperature	$2 \sim 3$
	3	Maximum operating temperature $+3/-0$	30 ± 3
	4	Room temperature	$2 \sim 3$
	Number of cycles: 5		
Recovery: 2 to 3 hrs of recovery under the standard condition after the test. (See Note 1)			
(Note 1) When there are questions concerning measurement result: measurement shall be made after 48 ± 2 hrs of recovery under the standard condition.			

14. Damp Heat (Steady state)			
Specified Value	BK0402		Appearance :No significant abnormality Impedance change: Within ±30%
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY	BK2010	
		BK3216	
	BKP0402		
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		Appearance :No significant abnormality Impedance change: Within ±20%
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		Appearance :No significant abnormality
	CK2125		Inductance change: Within ±20% Q change: Within ±30%
	CKS2125		Appearance :No significant abnormality
			Inductance change: Within ±20%
	CKP1608		Appearance :No significant abnormality Inductance change: Within ±30%
	CKP2012		
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		
	LK1005		Appearance :No significant abnormality
	LK1608		Inductance change: Within ±10% Q change: Within ±30%
	LK2125		Appearance :No significant abnormality
			Inductance change: Within ±20% Q change: Within ±30%
	HK0603		Appearance :No significant abnormality Inductance change: Within ±10% Q change: Within ±20%
	HK1005		
	HK1608		
HK2125			
HKQ0402			
HKQ0603W			
HKQ0603S			
HKQ0603U			
AQ105			
MCFK1608			
MCFE1608		Appearance :No significant abnormality Inductance change: Within ±10%	
MCKK1608			
MCHK2012			
MCKK2012			
Test Methods and Remarks	BK, BKP, BKH, LK, CK, CKS, CKP, NM Series, MCF Series: Temperature :40±2℃ Humidity :90 to 95%RH Duration :500 +24/−0 hrs Recovery :2 to 3 hrs of recovery under the standard condition after the removal from test chamber.(See Note 1)		
	HK, HKQ, AQ, MC Series: Temperature :60±2℃ Humidity :90 to 95%RH Duration :500 +24/−0 hrs Recovery :2 to 3 hrs of recovery under the standard condition after the removal from test chamber.(See Note 1)		
(Note 1) When there are questions concerning measurement result; measurement shall be made after 48±2 hrs of recovery under the standard condition.			

15. Loading under Damp Heat				
Specified Value	BK0402		Appearance: No significant abnormality Impedance change: Within ±30%	
	BK0603			
	BK1005			
	BKH0603			
	BKH1005			
	BK1608			
	BK2125			
	ARRAY	BK2010		
		BK3216		
	BKP0402			
	BKP0603			
	BKP1005			
	BKP1608			
	BKP2125			
	CK1608			Appearance: No significant abnormality
	CK2125		Inductance change: Within ±20% Q change: Within ±30%	
	CKS2125		Appearance: No significant abnormality	
			Inductance change: Within ±20%	
	CKP1608		Appearance: No significant abnormality Inductance change: Within ±30%	
	CKP2012			
	CKP2016			
	CKP2520			
	NM2012			
	NM2520		Appearance: No significant abnormality Inductance change: Within ±10% Q change: Within ±30%	
	LK1005			
	LK1608			Appearance: No significant abnormality Inductance change: 0.047~12.0 μH: Within ±10% 15.0~33.0 μH: Within ±15% Q change: Within ±30%
	LK2125			Appearance: No significant abnormality Inductance change: Within ±20% Q change: Within ±30%
	HK0603			Appearance: No significant abnormality Inductance change: Within ±10% Q change: Within ±20%
	HK1005			
	HK1608			
HK2125				
HKQ0402				
HKQ0603W				
HKQ0603S				
HKQ0603U				
AQ105				
MCFK1608※		Appearance: No significant abnormality Inductance change: Within ±10%		
MCFE1608※				
MCKK1608※				
MCHK2012※				
MCKK2012※				
Test Methods and Remarks	BK、BKP、BKH、LK、CK、CKS、CKP、NM Series: Temperature : 40±2℃ Humidity : 90 to 95%RH Applied current : Rated current Duration : 500 +24/−0 hrs Recovery : 2 to 3 hrs of recovery under the standard condition after the removal from test chamber.(See Note 1)			
	HK、HKQ、AQ、MC Series: Temperature : 60±2℃ Humidity : 90 to 95%RH Applied current : Rated current ※MC series ; Idc2max Duration : 500 +24/−0 hrs Recovery : 2 to 3 hrs of recovery under the standard condition after the removal from test chamber.(See Note 1)			
Note on standard condition: "standard condition" referred to herein is defined as follows: 5 to 35℃ of temperature, 45 to 85% relative humidity, and 86 to 106kPa of air pressure. When there are questions concerning measurement results: In order to provide correlation data, the test shall be conducted under condition of 20±2℃ of temperature, 60 to 70% relative humidity, and 86 to 106kPa of air pressure. Unless otherwise specified, all the tests are conducted under the "standard condition." (Note 1) Measurement shall be made after 48±2 hrs of recovery under the standard condition.				

16. Loading at High Temperature			
Specified Value	BK0402		Appearance: No significant abnormality Impedance change: Within ±30%
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY	BK2010	
		BK3216	
	BKP0402		
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		Appearance: No significant abnormality Impedance change: Within ±20%
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		Appearance: No significant abnormality
	CK2125		Inductance change: Within ±20% Q change: Within ±30%
	CKS2125		Appearance: No significant abnormality
			Inductance change: Within ±20%
	CKP1608		Appearance: No significant abnormality Inductance change: Within ±30%
	CKP2012		
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		
	LK1005		Appearance: No significant abnormality Inductance change: Within ±10% Q change: Within ±30%
	LK1608		Appearance: No significant abnormality Inductance change: 0.047~12.0 μH: Within ±10% 15.0~33.0 μH: Within ±15% Q change: Within ±30%
	LK2125		Appearance: No significant abnormality Inductance change: Within ±20% Q change: Within ±30%
	HK0603		Appearance: No significant abnormality Inductance change: Within ±10% Q change: Within ±20%
	HK1005		
	HK1608		
	HK2125		
	HKQ0402		
HKQ0603W			
HKQ0603S			
HKQ0603U			
AQ105			
MCFK1608※		Appearance: No significant abnormality Inductance change: Within ±10%	
MCFE1608※			
MCKK1608※			
MCHK2012※			
MCKK2012※			
Test Methods and Remarks	Temperature : Maximum operating temperature Applied current : Rated current ※MC series ; I _{dc2max} Duration : 500 +24/-0 hrs Recovery : 2 to 3 hrs of recovery under the standard condition after the removal from test chamber. (See Note 1)		
Note on standard condition: "standard condition" referred to herein is defined as follows: 5 to 35℃ of temperature, 45 to 85% relative humidity, and 86 to 106kPa of air pressure. When there are questions concerning measurement results: In order to provide correlation data, the test shall be conducted under condition of 20±2℃ of temperature, 60 to 70% relative humidity, and 86 to 106kPa of air pressure. Unless otherwise specified, all the tests are conducted under the "standard condition." (Note 1) Measurement shall be made after 48±2 hrs of recovery under the standard condition.			

Precautions on the use of Multilayer chip inductors

Multilayer chip inductors for high frequency, Multilayer chip bead inductors

Multilayer common mode choke coils(MC series F type)

Metal Multilayer Chip Power Inductors (MCOIL™ MC series)

■ PRECAUTIONS

1. Circuit Design

Precautions	◆ Verification of operating environment, electrical rating and performance 1. A malfunction in medical equipment, spacecraft, nuclear reactors, etc. may cause serious harm to human life or have severe social ramifications. As such, any inductors to be used in such equipment may require higher safety and/or reliability considerations and should be clearly differentiated from components used in general purpose applications. ◆ Operating Current (Verification of Rated current) 1. The operating current including inrush current for inductors must always be lower than their rated values. 2. Do not apply current in excess of the rated value because the inductance may be reduced due to the magnetic saturation effect.
-------------	---

2. PCB Design

Precautions	◆ Pattern configurations (Design of Land-patterns) 1. When inductors are mounted on a PCB, the size of land patterns and the amount of solder used (size of fillet) can directly affect inductor performance. Therefore, the following items must be carefully considered in the design of solder land patterns: (1) The amount of solder applied can affect the ability of chips to withstand mechanical stresses which may lead to breaking or cracking. Therefore, when designing land-patterns it is necessary to consider the appropriate size and configuration of the solder pads which in turn determines the amount of solder necessary to form the fillets. (2) When more than one part is jointly soldered onto the same land or pad, the pad must be designed so that each component's soldering point is separated by solder-resist. (3) The larger size of land patterns and amount of solder, the smaller Q value after mounting on PCB. It makes higher the Q value to design land patterns smaller than terminal electrode of chips. ◆ Pattern configurations (Inductor layout on panelized [breakaway] PC boards) 1. After inductors have been mounted on the boards, chips can be subjected to mechanical stresses in subsequent manufacturing processes (PCB cutting, board inspection, mounting of additional parts, assembly into the chassis, wave soldering the reflow soldered boards etc.) For this reason, planning pattern configurations and the position of SMD inductors should be carefully performed to minimize stress.
-------------	--

◆ Pattern configurations (Design of Land-patterns)

1. The following diagrams and tables show some examples of recommended patterns to prevent excessive solder amounts (larger fillets which extend above the component end terminations). Examples of improper pattern designs are also shown.

(1) Recommended land dimensions for a typical chip inductor land patterns for PCBs

Recommended land dimensions for wave-soldering (Unit:mm)

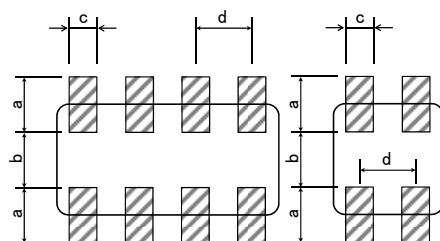
Type	1608	2012	2125	2016	2520	3216
Size	L	1.6	2.0	2.0	2.5	3.2
	W	0.8	1.25	1.25	1.6	2.0
A	0.8~1.0	1.0~1.4	1.0~1.4	1.0~1.4	1.0~1.4	1.8~2.5
B	0.5~0.8	0.8~1.5	0.8~1.5	0.8~1.5	0.6~1.0	0.8~1.7
C	0.6~0.8	0.9~1.2	0.9~1.2	1.3~1.6	1.6~2.0	1.2~1.6

Recommended land dimensions for reflow-soldering (Unit:mm)

Type	0402	0603	1005	105	1608	2012	2125	2016	2520	3216
Size	L	0.4	0.6	1.0	1.0	1.6	2.0	2.0	2.5	3.2
	W	0.2	0.3	0.5	0.6	0.8	1.25	1.25	1.6	2.0
A	0.15~0.25	0.20~0.30	0.45~0.55	0.50~0.55	0.8~1.0	0.8~1.2	0.8~1.2	0.8~1.2	1.0~1.4	1.8~2.5
B	0.10~0.20	0.20~0.30	0.40~0.50	0.30~0.40	0.6~0.8	0.8~1.2	0.8~1.2	0.8~1.2	0.6~1.0	0.6~1.5
C	0.15~0.30	0.25~0.40	0.45~0.55	0.60~0.70	0.6~0.8	0.9~1.6	0.9~1.6	1.2~2.0	1.8~2.2	1.2~2.0

Technical
considerations

Excess solder can affect the ability of chips to withstand mechanical stresses. Therefore, please take proper precautions when designing land-patterns.



Recommended land dimension for Reflow-soldering

Type		3216	2010	1210	0806	0605
Size	L	3.2	2.0	1.25	0.85	0.65
	W	1.6	1.0	1.0	0.65	0.50
a		0.7~0.9	0.5~0.6	0.45~0.55	0.25~0.35	0.27~0.33
b		0.8~1.0	0.5~0.6	0.7~0.8	0.25~0.35	0.17~0.23
c		0.4~0.5	0.2~0.3	0.25~0.35	0.25~0.35	0.20~0.26
d		0.8	0.5	0.55	0.5	0.4

(Unit: mm)

((2) Examples of good and bad solder application

Item	Not recommended	Recommended
Mixed mounting of SMD and leaded components	Lead wire of component	Solder-resist
Component placement close to the chassis	Chassis Solder (for grounding) Electrode pattern	Solder-resist
Hand-soldering of leaded components near mounted components	Lead wire of component Soldering iron	Solder-resist
Horizontal component placement		Solder-resist

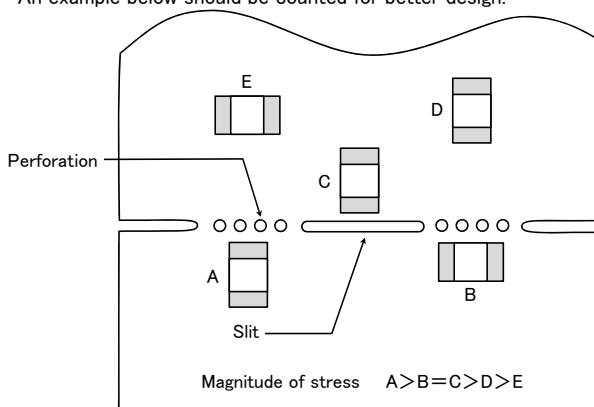
◆Pattern configurations (Inductor layout on panelized[breakaway] PC boards)

1-1. The following are examples of good and bad inductor layout; SMD inductors should be located to minimize any possible mechanical stresses from board warp or deflection.

Item	Not recommended	Recommended
Deflection of the board		Position the component at a right angle to the direction of the mechanical stresses that are anticipated.

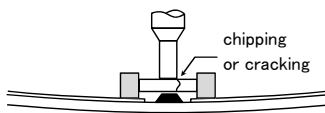
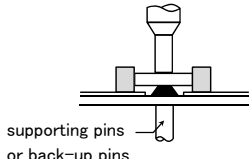
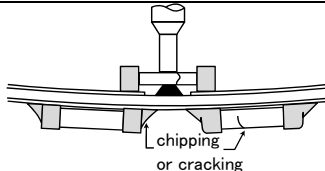
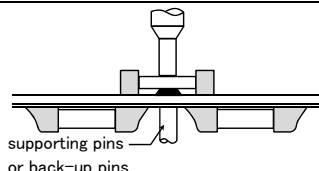
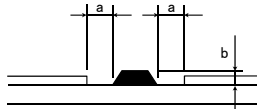
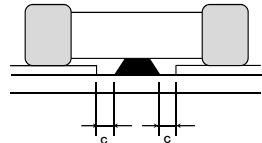
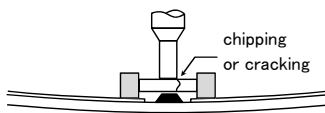
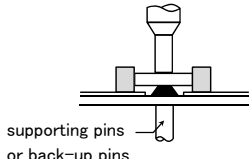
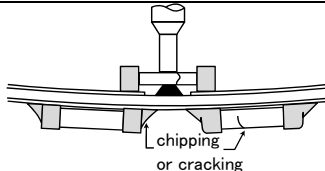
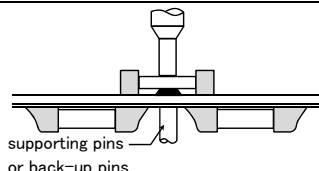
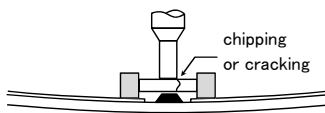
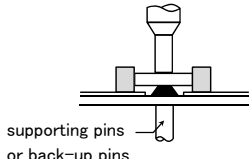
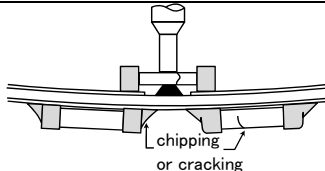
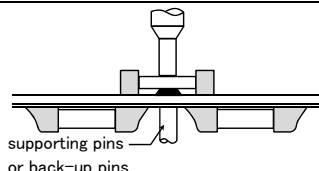
1-2. To layout the inductors for the breakaway PC board, it should be noted that the amount of mechanical stresses given will vary depending on inductor layout.

An example below should be counted for better design.



1-3. When breaking PC boards along their perforations, the amount of mechanical stress on the inductors can vary according to the method used. The following methods are listed in order from least stressful to most stressful: push-back, slit, V-grooving, and perforation. Thus, any ideal SMD inductor layout must also consider the PCB splitting procedure.

3. Considerations for automatic placement

Precautions	◆Adjustment of mounting machine - Excessive impact load should not be imposed on the inductors when mounting onto the PC boards. - The maintenance and inspection of the mounter should be conducted periodically. ◆Selection of Adhesives - Mounting inductors with adhesives in preliminary assembly, before the soldering stage, may lead to degraded inductor characteristics unless the following factors are appropriately checked; the size of land patterns, type of adhesive, amount applied, hardening temperature and hardening period. Therefore, it is imperative to consult the manufacturer of the adhesives on proper usage and amounts of adhesive to use.																	
Technical considerations	◆Adjustment of mounting machine - If the lower limit of the pick-up nozzle is low, too much force may be imposed on the inductors, causing damage. To avoid this, the following points should be considered before lowering the pick-up nozzle: - The lower limit of the pick-up nozzle should be adjusted to the surface level of the PC board after correcting for deflection of the board. - The pick-up pressure should be adjusted between 1 and 3N static loads. - To reduce the amount of deflection of the board caused by impact of the pick-up nozzle, supporting pins or back-up pins should be used under the PC board. The following diagrams show some typical examples of good pick-up nozzle placement: <table><tr><th>Item</th><th>Improper method</th><th>Proper method</th></tr><tr><td>Single-sided mounting</td><td></td><td></td></tr><tr><td>Double-sided mounting</td><td></td><td></td></tr></table> - As the alignment pin wears out, adjustment of the nozzle height can cause chipping or cracking of the inductors because of mechanical impact on the inductors. To avoid this, the monitoring of the width between the alignment pin in the stopped position, and maintenance, inspection and replacement of the pin should be conducted periodically. ◆Selection of Adhesives - Some adhesives may cause reduced insulation resistance. The difference between the shrinkage percentage of the adhesive and that of the inductors may result in stresses on the inductors and lead to cracking. Moreover, too little or too much adhesive applied to the board may adversely affect component placement, so the following precautions should be noted in the application of adhesives. - Required adhesive characteristics - The adhesive should be strong enough to hold parts on the board during the mounting & solder process. - The adhesive should have sufficient strength at high temperatures. - The adhesive should have good coating and thickness consistency. - The adhesive should be used during its prescribed shelf life. - The adhesive should harden rapidly. - The adhesive must not be contaminated. - The adhesive should have excellent insulation characteristics. - The adhesive should not be toxic and have no emission of toxic gasses. - When using adhesives to mount inductors on a PCB, inappropriate amounts of adhesive on the board may adversely affect component placement. Too little adhesive may cause the inductors to fall off the board during the solder process. Too much adhesive may cause defective soldering due excessive flow of adhesive on to the land or solder pad. [Recommended conditions] <table><tr><th>Figure</th><th>0805 case sizes as examples</th></tr><tr><td>a</td><td>0.3mm min</td></tr><tr><td>b</td><td>100~120 μm</td></tr><tr><td>c</td><td>Area with no adhesive</td></tr></table> Amount of adhesives  After inductors are bonded 	Item	Improper method	Proper method	Single-sided mounting			Double-sided mounting			Figure	0805 case sizes as examples	a	0.3mm min	b	100~120 μm	c	Area with no adhesive
Item	Improper method	Proper method																
Single-sided mounting																		
Double-sided mounting																		
Figure	0805 case sizes as examples																	
a	0.3mm min																	
b	100~120 μm																	
c	Area with no adhesive																	

4. Soldering

Precautions	◆Selection of Flux - Since flux may have a significant effect on the performance of inductors, it is necessary to verify the following conditions prior to use; - Flux used should be with less than or equal to 0.1 wt% (Chlorine conversion method) of halogenated content. Flux having a strong acidity content should not be applied. - When soldering inductors on the board, the amount of flux applied should be controlled at the optimum level. - When using water-soluble flux, special care should be taken to properly clean the boards. ◆Soldering - Temperature, time, amount of solder, etc. are specified in accordance with the following recommended conditions, and please contact us about peak temperature when you use lead-free paste.
--------------------	--

◆ Selection of Flux

- 1-1. When too much halogenated substance (Chlorine, etc.) content is used to activate the flux, or highly acidic flux is used, an excessive amount of residue after soldering may lead to corrosion of the terminal electrodes or degradation of insulation resistance on the surface of the Inductor.
- 1-2. Flux is used to increase solderability in flow soldering, but if too much is applied, a large amount of flux gas may be emitted and may detrimentally affect solderability. To minimize the amount of flux applied, it is recommended to use a flux-bubbling system.
- 1-3. Since the residue of water-soluble flux is easily dissolved by water content in the air, the residue on the surface of Inductor in high humidity conditions may cause a degradation of insulation resistance and therefore affect the reliability of the components. The cleaning methods and the capability of the machines used should also be considered carefully when selecting water-soluble flux.

◆ Soldering

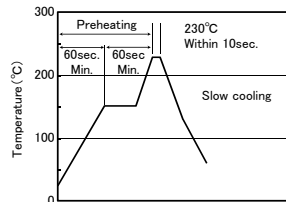
1-1. Preheating when soldering

Heating: Chip inductor components should be preheated to within 100 to 130°C of the soldering. Cooling: The temperature difference between the components and cleaning process should not be greater than 100°C.

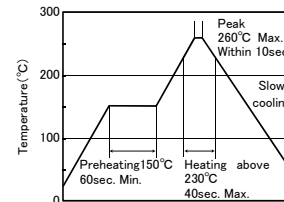
Chip inductors are susceptible to thermal shock when exposed to rapid or concentrated heating or rapid cooling. Therefore, the soldering process must be conducted with a great care so as to prevent malfunction of the components due to excessive thermal shock.

[Reflow soldering]

【Recommended conditions for eutectic soldering】



【Recommended condition for Pb-free soldering】



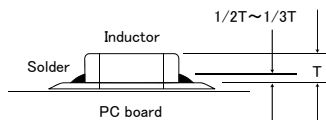
※Ceramic chip components should be preheated to within 100 to 130°C of the soldering.

※Assured to be reflow soldering for 2 times.

※MC series; Peak 230°C (eutectic soldering), 260°C (Pb-free soldering) max within 5sec.

Caution

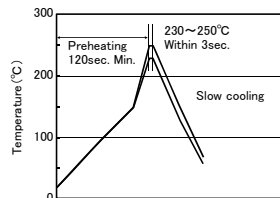
1. The ideal condition is to have solder mass (fillet) controlled to 1/2 to 1/3 of the thickness of the inductor, as shown below:



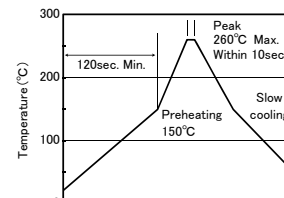
2. Because excessive dwell times can detrimentally affect solderability, soldering duration should be kept as close to recommended times as possible.

[Wave soldering]

【Recommended conditions for eutectic soldering】



【Recommended condition for Pb-free soldering】



※Ceramic chip components should be preheated to within 100 to 130°C of the soldering.

※Assured to be wave soldering for 1 time.

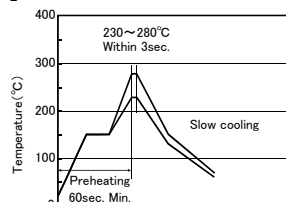
※Except for reflow soldering type.

Caution

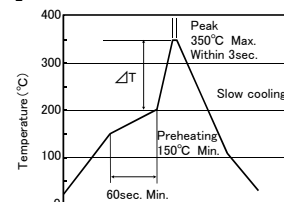
1. Make sure the inductors are preheated sufficiently.
2. The temperature difference between the inductor and melted solder should not be greater than 100 to 130°C.
3. Cooling after soldering should be as gradual as possible.
4. Wave soldering must not be applied to the inductors designated as for reflow soldering only.

[Hand soldering]

【Recommended conditions for eutectic soldering】



【Recommended condition for Pb-free soldering】



(※ $\Delta T \leq 190^\circ\text{C}$ (3216 Type max), $\Delta T \leq 130^\circ\text{C}$ (3225 Type min))

※It is recommended to use 20W soldering iron and the tip is 1φ or less.

※The soldering iron should not directly touch the components.

※Assured to be soldering iron for 1 time.

Note: The above profiles are the maximum allowable soldering condition, therefore these profiles are not always recommended.

Technical
considerations

	Caution 1. Use a 20W soldering iron with a maximum tip diameter of 1.0 mm. 2. The soldering iron should not directly touch the inductor.						
5. Cleaning							
Precautions	◆Cleaning conditions 1. When cleaning the PC board after the Inductors are all mounted, select the appropriate cleaning solution according to the type of flux used and purpose of the cleaning (e.g. to remove soldering flux or other materials from the production process.) 2. Cleaning conditions should be determined after verifying, through a test run, that the cleaning process does not affect the inductor's characteristics.						
Technical considerations	◆Cleaning conditions 1. The use of inappropriate solutions can cause foreign substances such as flux residue to adhere to the inductor, resulting in a degradation of the inductor's electrical properties (especially insulation resistance). 2. Inappropriate cleaning conditions (insufficient or excessive cleaning) may detrimentally affect the performance of the inductors. (1) Excessive cleaning a. In the case of ultrasonic cleaning, too much power output can cause excessive vibration of the PC board which may lead to the cracking of the inductor or the soldered portion, or decrease the terminal electrodes' strength. Thus the following conditions should be carefully checked; <table> <tr> <td>Ultrasonic output</td><td>Below 20W/ℓ</td></tr> <tr> <td>Ultrasonic frequency</td><td>Below 40kHz</td></tr> <tr> <td>Ultrasonic washing period</td><td>5 min. or less</td></tr> </table>	Ultrasonic output	Below 20W/ℓ	Ultrasonic frequency	Below 40kHz	Ultrasonic washing period	5 min. or less
Ultrasonic output	Below 20W/ℓ						
Ultrasonic frequency	Below 40kHz						
Ultrasonic washing period	5 min. or less						
6. Post cleaning processes							
Precautions	◆Application of resin coatings, moldings, etc. to the PCB and components. 1. With some type of resins a decomposition gas or chemical reaction vapor may remain inside the resin during the hardening period or while left under normal storage conditions resulting in the deterioration of the inductor's performance. 2. When a resin's hardening temperature is higher than the inductor's operating temperature, the stresses generated by the excess heat may lead to inductor damage or destruction. 3. Stress caused by a resin's temperature generated expansion and contraction may damage inductors. The use of such resins, molding materials etc. is not recommended.						
7. Handling							
Precautions	◆Breakaway PC boards (splitting along perforations) 1. When splitting the PC board after mounting inductors and other components, care is required so as not to give any stresses of deflection or twisting to the board. 2. Board separation should not be done manually, but by using the appropriate devices. ◆General handling precautions 1. Always wear static control bands to protect against ESD. 2. Keep the inductors away from all magnets and magnetic objects. 3. Use non-magnetic tweezers when handling inductors. 4. Any devices used with the inductors (soldering irons, measuring instruments) should be properly grounded. 5. Keep bare hands and metal products (i.e., metal desk) away from chip electrodes or conductive areas that lead to chip electrodes. 6. Keep inductors away from items that generate magnetic fields such as speakers or coils. ◆Mechanical considerations 1. Be careful not to subject the inductors to excessive mechanical shocks. (1) If inductors are dropped on the floor or a hard surface they should not be used. (2) When handling the mounted boards, be careful that the mounted components do not come in contact with or bump against other boards or components.						
8. Storage conditions							
Precautions	◆Storage 1. To maintain the solderability of terminal electrodes and to keep the packaging material in good condition, care must be taken to control temperature and humidity in the storage area. Humidity should especially be kept as low as possible. •Recommended conditions <table> <tr> <td>Ambient temperature: Below 30°C</td><td>Humidity: Below 70% RH</td></tr> </table> The ambient temperature must be kept below 40°C. Even under ideal storage conditions, solderability of inductor is deteriorated as time passes, so inductors should be used within 6 months from the time of delivery. •Inductor should be kept where no chlorine or sulfur exists in the air.	Ambient temperature: Below 30°C	Humidity: Below 70% RH				
Ambient temperature: Below 30°C	Humidity: Below 70% RH						
Technical considerations	◆Storage 1. If the parts are stocked in a high temperature and humidity environment, problems such as reduced solderability caused by oxidation of terminal electrodes and deterioration of taping/packaging materials may take place. For this reason, components should be used within 6 months from the time of delivery. If exceeding the above period, please check solderability before using the inductors.						