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Please read this notice before using the TAIYO YUDEN products.

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Please note that TAIYO YUDEN shall not be in any way responsible for any damages and defects in products or equipment incorporating our products, which are caused under the conditions other than those specified in this catalog or individual product specification sheets.

- Please contact TAIYO YUDEN for further details of product specifications as the individual product specification sheets are available.
- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
- The products listed in this catalog are intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC) and medical equipment classified as Class I or II by IMDRF. Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, disaster prevention equipment, medical equipment classified as Class III by IMDRF, highly public information network equipment including, without limitation, telephone exchange, and base station).

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*Note: There is a possibility that our products can be used only for aviation equipment that does not directly affect the safe operation of aircraft (e.g., in-flight entertainment, cabin light, electric seat, cooking equipment) if such use meets requirements specified separately by TAIYO YUDEN. Please be sure to contact TAIYO YUDEN for further information before using our products for such aviation equipment.

When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.

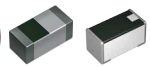
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- The contents of this catalog are applicable to our products which are purchased from our sales offices or authorized distributors (hereinafter "TAIYO YUDEN's official sales channel"). Please note that the contents of this catalog are not applicable to our products purchased from any seller other than TAIYO YUDEN's official sales channel.

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HIGH-Q MULTILAYER CHIP INDUCTORS FOR HIGH FREQUENCY APPLICATIONS(HK SERIES Q TYPE/AQ SERIES)



REFLOW

■ PARTS NUMBER

* Operating Temp.: -55~+125°C

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

△=Blank space

① Series name

Code	Series name
HKQ	High-Q multilayer chip inductor for high frequency applications
AQ△	

② Dimensions (L×W)

Code	Type (inch)	Dimensions (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 Series code

Code	Series code
△	Standard
W	W
S	S
U	U

④ Nominal inductance

Code (example)	Nominal inductance [nH]
3N9	3.9
10N	10.0

※N=0.0(nH type)

⑤ Inductance tolerance

Code	Inductance tolerance
H	±3%
J	±5%
B	±0.1nH
C	±0.2nH
S	±0.3nH

⑥ Packaging

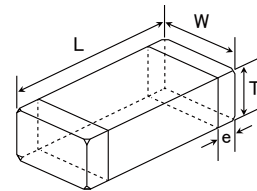
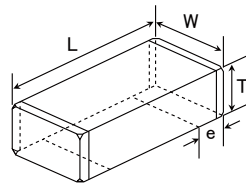
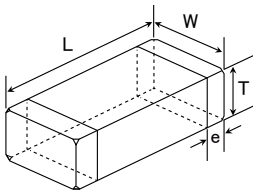
Code	Packaging
-T	Taping
-E	Taping(1mm pitch) 0402type only

■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

HKQ0402, HKQ0603S, HKQ0603U, AQ 105

HKQ0603W 0N6~24N

HKQ0603W 27N~R10



Type	L	W	T	e	Standard quantity [pcs]	
					Paper tape	Embossed tape
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	—

Unit: mm (inch)

INDUCTORS \ INDUCTORS FOR HIGH FREQUENCY APPLICATIONS

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

PARTS NUMBER

HKQ0402

Parts number	EHS	Nominal inductance [nH]	Inductance tolerance	Q (min.)	LQ Measuring frequency [MHz]	Q (Typical) frequency [Hz]					Self-resonant frequency [MHz] (min.)	Resistance DC [Ω] (max.)	Rated current [mA] (max.)	Thickness [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

※ □ mark indicates the Inductance tolerance code.

※ △mark indicates the Packing code.

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HKQ0603S

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

※ □ mark indicates the Inductance tolerance code.

AQ 105

Parts number	EHS	Nominal inductance [nH]	Inductance tolerance ※)	Q (min.)	LQ Measuring frequency [MHz]	Q (Typical) frequency [MHz]					Self-resonant frequency [MHz]		Resistance DC [Ω]		Rated current [mA] (max.)		Thickness [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

※ □ mark indicates the Inductance tolerance code. Please refer for the inductance tolerance except the above.

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

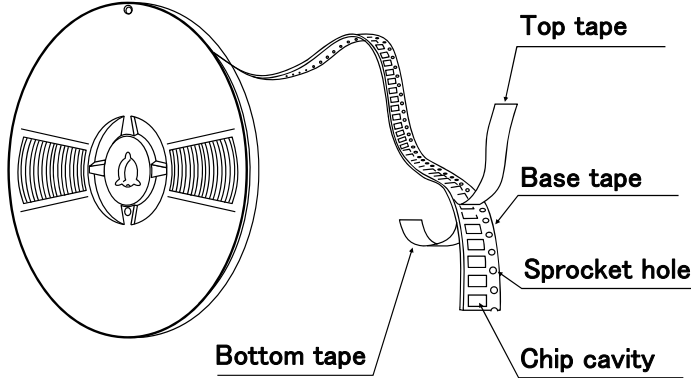
● Tape & Reel Packaging

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
MCFK1608(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/>).

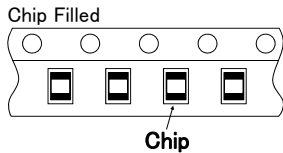
② Taping material

● Card board carrier tape

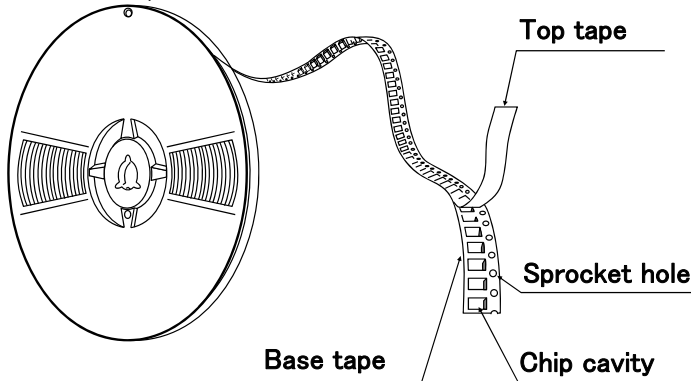


CK	1608
CKP	1608
CK	2125
CKS	2125
LK	1005
LK	1608
LK	2125
HK	0603
HK	1005
HK	1608
HKQ	0402
HKQ	0603
AQ	105

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

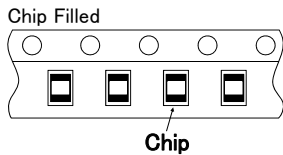


● Embossed Tape



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

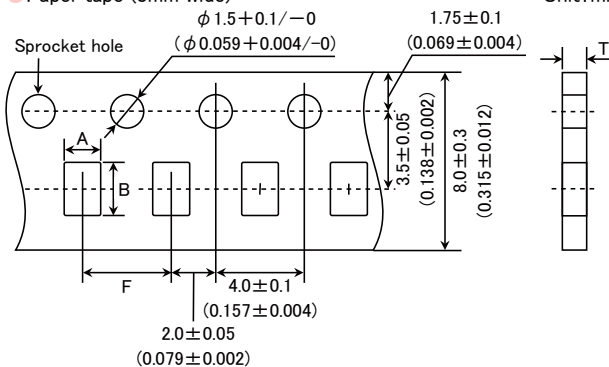
BK	2125
BK	3216
MCF	0806
MCF	1210
MCF	2010
MC	1608
MC	2012



③ Taping Dimensions

● Paper tape (8mm wide)

Unit: mm (inch)



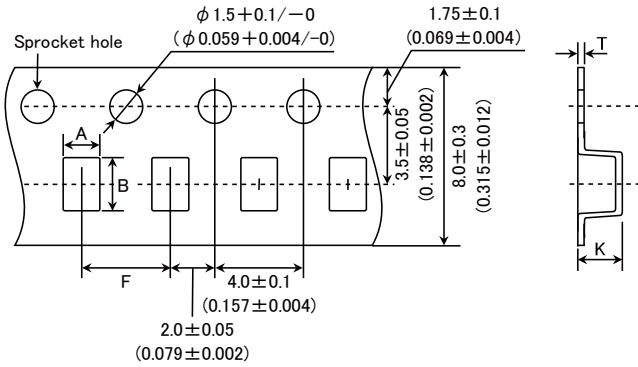
► This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>).

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)



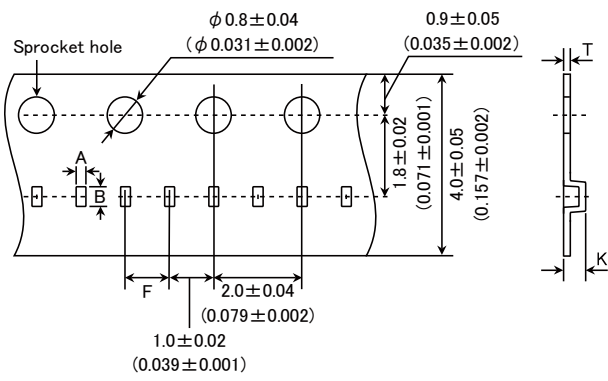
Type	Thickness mm (inch)	Chip cavity		Insertion Pitch F	Tape Thickness	
		A	B		K	T
CK2125(0805)	1.25 (0.049)	1.5 ± 0.2 (0.059 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 0.004)	2.0 (0.079)	0.3 (0.012)
CKS2125(0805)	1.25 (0.049)	1.5 ± 0.2 (0.059 ± 0.008)	2.3 ± 0.2 (0.091 ± 0.008)	4.0 ± 0.1 (0.157 ± 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)

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● Embossed Tape (4mm wide)

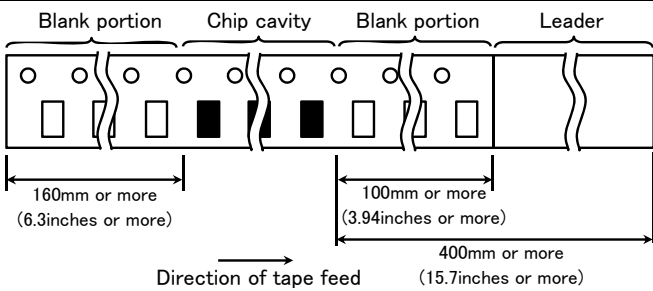
Unit : mm (inch)



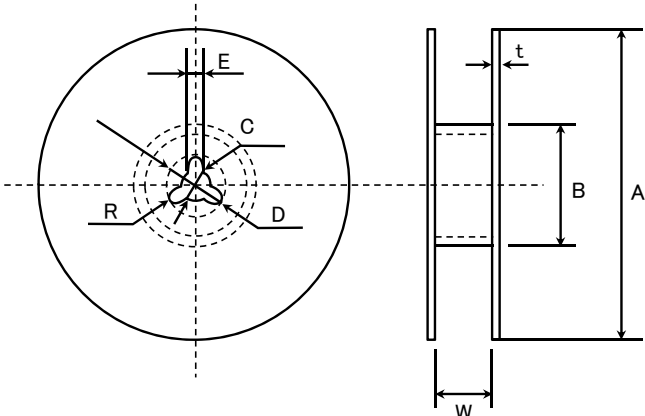
Type	Thickness mm (inch)	Chip cavity		Insertion Pitch F	Tape Thickness	
		A	B		K	T
HKQ0402 (01005)	0.2 (0.008)	0.23	0.43	1.0 ± 0.02	0.5max.	0.25max.

Unit : mm

④ LEADER AND BLANK PORTION



⑤ Reel Size



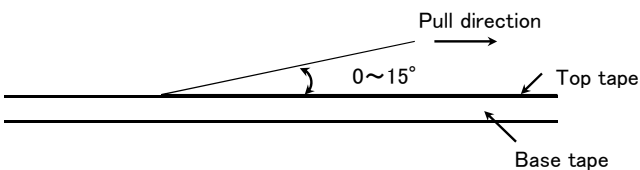
A	B	C	D	E	R
$\phi 178 \pm 2.0$	$\phi 50$ or more	$\phi 13.0 \pm 0.2$	$\phi 21.0 \pm 0.8$	2.0 ± 0.5	1.0

	t	W
4mm width tape	1.5max.	5 ± 1.0
8mm width tape	2.5max.	10 ± 1.5

(Unit : mm)

⑥ Top tape strength

The top tape requires a peel-off force of 0.1~0.7N in the direction of the arrow as illustrated below.



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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°C	
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY		BK2010
			BK3216
	BKP0402		-55~+85°C
	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		-55~+125°C
	LK1608		
	LK2125		
	HKQ0402	-40~+85°C	
	HK0603		
HK1005	-55~+125°C		
HK1608			
HK2125			
HKQ0603W/HKQ0603S/HKQ0603U	-55~+125°C		
AQ105			
MCFK1608	-40~+125°C (Including self-generated heat)		
MCFE1608			
MCKK1608			
MCHK2012			
MCKK2012			

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2. Storage Temperature Range

Specified Value	BK0402	-55~+125°C	
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	ARRAY		BK2010
			BK3216
	BKP0402		-55~+85°C
	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			

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3. Rated Current

	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
Specified Value	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)			

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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) : 2~25MHz (CK2125) : 2~10MHz (CKS2125) : 10~25MHz (LK1005) : 1~50MHz (LK1608) : 0.4~50MHz (LK2125) : 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
	Test Methods and Remarks	Measuring current	: 1mA rms (0.047~4.7 μ H) : 0.1mA rms (5.6~33 μ H)
		HK, HKQ, AQ Series	
	Test Methods and Remarks	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

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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	0.10~0.90 Ω max.
		BK3216	0.15~0.80 Ω max.
	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)	

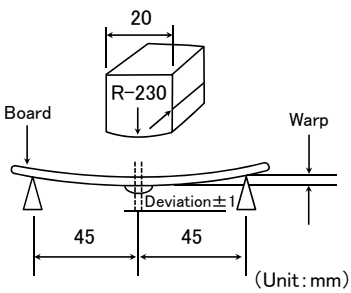
8. Self Resonance Frequency (SRF)

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		Inductance change: Within $\pm 10\%$
	HK1005		
	HK1608		
	HK2125		
	HKQ0402		
HKQ0603W			
HKQ0603S			
HKQ0603U			
AQ105			
MCFK1608			
MCFE1608			
MCKK1608			
MCHK2012			
MCKK2012			
Test Methods and Remarks	HK, HKQ, AQ Series: Temperature range : $-30 \sim +85^{\circ}\text{C}$ Reference temperature : $+20^{\circ}\text{C}$ MC Series: Temperature range : $-40 \sim +85^{\circ}\text{C}$ Reference temperature : $+20^{\circ}\text{C}$		

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	<p>Warp : 2mm (BK Series without 0402size, BKP, BKH1005, CK, CKS, CKP, LK, HK, HKQ0603S, HKQ0603U, AQ Series, MCF1210, MC Series)</p> <p>: 1mm (BK0402, BKP0402, BKH0603, HKQ0402, HKQ0603W, MCF Series without 1210 size.)</p> <p>Testing board : glass epoxy-resin substrate</p> <p>Thickness : 0.8mm</p>  <p>(Unit: mm)</p>		

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11. Solderability

Specified Value	BK0402	At least 90% of terminal electrode is covered by new solder.	
	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°C (JIS Z 3282 H60A or H63A)		
	Solder temperature : 245±3°C (Sn/3.0Ag/0.5Cu)		
	Duration : 4±1 sec.		

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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			
LK1005	Appearance: No significant abnormality Inductance change: Within $\pm 15\%$		
LK1608	Appearance: No significant abnormality Inductance change		
LK2125	47N~4R7: Within $\pm 10\%$ 5R6~330: Within $\pm 15\%$		
HK0603	Appearance: No significant abnormality Inductance change: Within $\pm 5\%$		
HK1005			
HK1608			
HK2125			
HKQ0402			
HKQ0603W			
HKQ0603S			
HKQ0603U			
AQ105			
MCFK1608			
MCFE1608	Appearance: No significant abnormality Inductance change: Within $\pm 10\%$		
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			
MCFE1608	Appearance: No significant abnormality Inductance change: Within $\pm 10\%$		
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.			

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