Please read this notice before using the TAIYO YUDEN products.

!\ REMINDERS

Product information in this catalog is as of October 2013. All of the contents specified herein are subject to change without notice due to technical improvements, etc. Therefore, please check for the latest information carefully before practical application or usage of the Products.

Please note that TAIYO YUDEN CO., LTD. shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this catalog or individual specification.

- Please contact TAIYO YUDEN CO., LTD. for further details of product specifications as the individual specification is available.
- Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.
- All electronic components or functional modules listed in this catalog are developed, designed and intended for use in general electronics equipment.(for AV, office automation, household, office supply, information service, telecommunications, (such as mobile phone or PC) etc.). Before incorporating the components or devices into any equipment in the field such as transportation,(automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network (telephone exchange, base station) etc. which may have direct influence to harm or injure a human body, please contact TAIYO YUDEN CO., LTD. for more detail in advance.

Do not incorporate the products into any equipment in fields such as aerospace, aviation, nuclear control, submarine system, military, etc. where higher safety and reliability are especially required.

In addition, even electronic components or functional modules that are used for the general electronic equipment, if the equipment or the electric circuit require high safety or reliability function or performances, a sufficient reliability evaluation check for safety shall be performed before commercial shipment and moreover, due consideration to install a protective circuit is strongly recommended at customer's design stage.

- The contents of this catalog are applicable to the products which are purchased from our sales offices or distributors (so called "TAIYO YUDEN's official sales channel").

 It is only applicable to the products purchased from any of TAIYO YUDEN's official sales channel.
- Disease note that TAIVO VIIDEN CO. LTD. shall have no reanancibility for any controversion or dispute
- Please note that TAIYO YUDEN CO., LTD. shall have no responsibility for any controversies or disputes that may occur in connection with a third party's intellectual property rights and other related rights arising from your usage of products in this catalog. TAIYO YUDEN CO., LTD. grants no license for such rights.
- Caution for export

Certain items in this catalog may require specific procedures for export according to "Foreign Exchange and Foreign Trade Control Law" of Japan, "U.S. Export Administration Regulations", and other applicable regulations. Should you have any question or inquiry on this matter, please contact our sales staff.

MULTILAYER CHIP BEAD INDUCTORS(BK SERIES)





WAVE* RE

*Except for BK0402, BK0603, BK1005, BKH1005

■PARTS NUMBER

*Operating Temp. : -55~+125°C

△=Blank space

В	K	Δ	1	6	0	8	Н	S	1	2	1		Т	Δ
	1			Ć.	2		(3	3)		4		⑤	6	7

①Series name	
Code	Series name

 Code
 Series name

 BK∆
 Multilayer chip bead inductor

 BKH
 Multilayer chip bead inductor

②Dimensions (L × W)

Code	Type (inch)	Dimensions (L×W)[mm]
0402	0402 (01005)	0.4×0.2
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 × 1.25

3Material

Code	Material
HW	
HS	
HR	
НМ	Refer to impedance curves
LM	for material differences
LL	
TS	
TM	

4 Nominal impedance

Code (example)	Nominal impedance[Ω]
150	15
101	100
102	1000

⑤Characteristics

Code

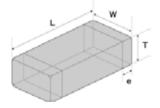
Code	Characteristics
_	Standard

6 Packaging

①Internal code	
Code	Internal code
Δ	Standard

Packaging Taping

■STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



Type		w	т		Standard quantity [pcs]		
Туре	L			е	Paper tape	Embossed tape	
BK 0402 (01005)	0.40±0.02 (0.016±0.001)	0.20±0.02 (0.008±0.001)	0.20±0.02 (0.008±0.001)	0.10+0.04/-0.03 (0.004+0.002/-0.001)	20000	-	
BK 0603 BKH0603 (0201)	0.60±0.03 (0.024±0.001)	0.30±0.03 (0.012±0.001)	0.30±0.03 (0.012±0.001)	0.15±0.05 (0.006±0.002)	15000	_	
BK 1005 BKH1005 (0402)	1.00±0.05 (0.039±0.002)	0.50±0.05 (0.020±0.002)	0.50±0.05 (0.020±0.002)	0.25±0.10 (0.010±0.004)	10000	_	
BK 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	_	
BK 2125	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	_	
(0805)	2.0+0.3/-0.1 (0.079+0.012/-0.004)	1.25±0.2 (0.049±0.008)	1.25±0.2 (0.049±0.008)	0.5±0.3 (0.020±0.012)	_	2000	
	•	•	•			Unit:mm(inch)	

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BK 0402

Parts number	EHS	Nominal impedance [Ω]	Impedance tolerance	Measuring frequency [MHz]	DC Resistance [Ω](max.)	Rated current [mA] (max.)	Thickness [mm]
BK 0402HS100-T	RoHS	10	±5Ω	100	0.10	540	0.20 ±0.02
BK 0402HS700-T	RoHS	70	±25%	100	0.37	280	0.20 ±0.02
BK 0402HS121-T	RoHS	120	±25%	100	0.53	240	0.20 ±0.02
BK 0402HM100-T	RoHS	10	±5Ω	100	0.07	750	0.20 ±0.02
BK 0402HM750-T	RoHS	75	±25%	100	0.45	260	0.20 ±0.02
BK 0402HM121-T	RoHS	120	±25%	100	0.60	220	0.20 ±0.02
BK 0402HM151-T	RoHS	150	±25%	100	0.65	200	0.20 ±0.02
BK 0402HM181-T	RoHS	180	±25%	100	0.75	200	0.20 ±0.02
BK 0402LL220-T	RoHS	22	±25%	100	0.70	150	0.20 ±0.02

BK 0603

Parts number	EHS	Nominal impedance [Ω]	Impedance tolerance	Measuring frequency [MHz]	DC Resistance $[\Omega]$ (max.)	Rated current [mA] (max.)	Thickness [mm]
BK 0603HS220-T	RoHS	22	±25%	100	0.065	500	0.30 ±0.03
BK 0603HS330-T	R ₀ HS	33	±25%	100	0.070	500	0.30 ±0.03
BK 0603HS800-T	R ₀ HS	80	±25%	100	0.40	200	0.30 ±0.03
BK 0603HS121-T	R ₀ HS	120	±25%	100	0.45	200	0.30 ±0.03
BK 0603HS241-T	R ₀ HS	240	±25%	100	0.65	200	0.30 ±0.03
BK 0603HS601-T	R ₀ HS	600	±25%	100	1.20	150	0.30 ±0.03
BK 0603HM600-T	R₀HS	60	±25%	100	0.25	200	0.30 ± 0.03
BK 0603HM121-T	R ₀ HS	120	±25%	100	0.40	200	0.30 ±0.03
BK 0603HM241-T	R ₀ HS	240	±25%	100	0.80	200	0.30 ±0.03
BK 0603HM471-T	R ₀ HS	470	±25%	100	1.05	100	0.30 ±0.03
BK 0603HM601-T	R ₀ HS	600	±25%	100	1.20	100	0.30 ±0.03
BK 0603LL100-T	RoHS	10	±25%	100	0.25	200	0.30 ±0.03
BK 0603LL220-T	RoHS	22	±25%	100	0.45	200	0.30 ±0.03
BK 0603LL330-T	RoHS	33	±25%	100	0.55	150	0.30 ±0.03
BK 0603LL470-T	RoHS	47	±25%	100	0.70	150	0.30 ± 0.03
BK 0603LL560-T	RoHS	56	±25%	100	1.00	100	0.30 ± 0.03
BK 0603LL800-T	RoHS	80	±25%	100	1.30	100	0.30 ± 0.03
BK 0603LL121-T	RoHS	120	±25%	100	1.50	100	0.30 ± 0.03
BK 0603TS800-T	RoHS	80	±25%	100	0.18	500	0.30 ± 0.03
BK 0603TS121-T	R ₀ HS	120	±25%	100	0.23	450	0.30 ± 0.03
BK 0603TS241-T	R ₀ HS	240	±25%	100	0.32	400	0.30 ±0.03
BK 0603TS601-T	RoHS	600	±25%	100	0.75	270	0.30 ±0.03
BK 0603TM800-T	RoHS	80	±25%	100	0.18	450	0.30 ±0.03
BK 0603TM121-T	RoHS	120	±25%	100	0.23	400	0.30 ±0.03
BK 0603TM241-T	RoHS	240	±25%	100	0.38	300	0.30 ± 0.03
BK 0603TM601-T	RoHS	600	±25%	100	0.85	250	0.30 ±0.03
BKH0603LM601-T	RoHS	600	±25%	100	1.50	160	0.30 ±0.03
BKH0603LM102-T	RoHS	1000	±25%	100	2.50	130	0.30 ±0.03
BKH0603LM152-T	RoHS	1500	±25%	100	3.20	115	0.30 ±0.03

BK 1005

Parts number	EHS	Nominal impedance [Ω]	Impedance tolerance	Measuring frequency [MHz]	DC Resistance [Ω](max.)	Rated current [mA] (max.)	Thickness [mm]
BK 1005HW680-T	RoHS	68	±25%	100	0.17	500	0.50 ±0.05
BK 1005HW121-T	R ₀ HS	120	±25%	100	0.24	450	0.50 ±0.05
BK 1005HW241-T	R ₀ HS	240	±25%	100	0.31	400	0.50 ±0.05
BK 1005HW431-T	R ₀ HS	430	±25%	100	0.50	350	0.50 ±0.05
BK 1005HW601-T	R ₀ HS	600	±25%	100	0.60	300	0.50 ± 0.05
BK 1005HS100-T	R₀HS	10	±25%	100	0.03	1,000	0.50 ± 0.05
BK 1005HS330-T	R₀HS	33	±25%	100	0.06	700	0.50 ± 0.05
BK 1005HS680-T	R₀HS	68	±25%	100	0.10	700	0.50 ± 0.05
BK 1005HS800-T	R₀HS	80	±25%	100	0.10	700	0.50 ± 0.05
BK 1005HS121-T	R₀HS	120	±25%	100	0.20	500	0.50 ± 0.05
BK 1005HS241-T	R₀HS	240	±25%	100	0.30	400	0.50 ± 0.05
BK 1005HS431-T	R₀HS	430	±25%	100	0.45	350	0.50 ± 0.05
BK 1005HS601-T	R₀HS	600	±25%	100	0.55	300	0.50 ± 0.05
BK 1005HS102-T	R₀HS	1000	±25%	100	0.58	300	0.50 ± 0.05
BK 1005HR601-T	R₀HS	600	±25%	100	0.60	300	0.50 ± 0.05
BK 1005HM750-T	R₀HS	75	±25%	100	0.18	350	0.50 ± 0.05
BK 1005HM121-T	R₀HS	120	±25%	100	0.18	300	0.50 ±0.05
BK 1005HM241-T	R₀HS	240	±25%	100	0.30	300	0.50 ±0.05
BK 1005HM471-T	R₀HS	470	±25%	100	0.45	250	0.50 ±0.05
BK 1005HM601-T	R₀HS	600	±25%	100	0.50	250	0.50 ±0.05
BK 1005HM102-T	R₀HS	1000	±25%	100	0.70	150	0.50 ±0.05
BK 1005LL100-T	R₀HS	10	±25%	100	0.11	500	0.50 ±0.05
BK 1005LL220-T	R₀HS	22	±25%	100	0.18	400	0.50 ±0.05
BK 1005LL330-T	R₀HS	33	±25%	100	0.25	400	0.50 ± 0.05
BK 1005LL470-T	R₀HS	47	±25%	100	0.33	350	0.50 ± 0.05
BK 1005LL680-T	R₀HS	68	±25%	100	0.31	400	0.50 ±0.05
BK 1005LL121-T	R₀HS	120	±25%	100	0.45	350	0.50 ±0.05
BK 1005LL181-T	R₀HS	180	±25%	100	0.50	300	0.50 ±0.05
BK 1005LL241-T	R₀HS	240	±25%	100	0.70	250	0.50 ±0.05
BK 1005LM182-T	R₀HS	1800	±25%	100	0.90	120	0.50 ±0.05
BKH1005LM601-T	R₀HS	600	±25%	100	0.85	300	0.50 ±0.05
BKH1005LM102-T	R₀HS	1000	±25%	100	1.25	250	0.50 ±0.05
BKH1005LM152-T	R₀HS	1500	±25%	100	1.50	200	0.50 ±0.05
BKH1005LM182-T	R₀HS	1800	±25%	100	2.00	200	0.50 ± 0.05

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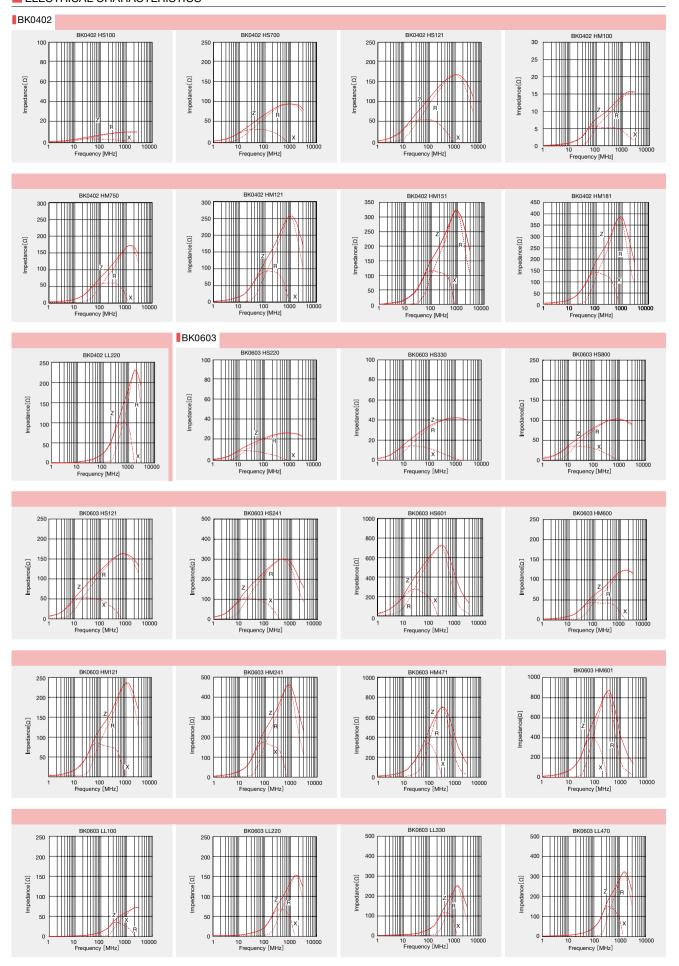
BK 1608

Parts number	EHS	Nominal impedance [Ω]	Impedance tolerance	Measuring frequency [MHz]	DC Resistance [Ω](max.)	Rated current [mA] (max.)	Thickness [mm]
BK 1608HW121-T	RoHS	120	±25%	100	0.15	600	0.80 ±0.15
BK 1608HW241-T	RoHS	240	±25%	100	0.25	450	0.80 ±0.15
BK 1608HW431-T	RoHS	430	±25%	100	0.30	400	0.80 ±0.15
BK 1608HW601-T	R₀HS	600	±25%	100	0.40	300	0.80 ±0.15
BK 1608HS220-T	RoHS	22	±25%	100	0.05	1,500	0.80 ±0.15
BK 1608HS330-T	RoHS	33	±25%	100	0.08	1,200	0.80 ±0.15
BK 1608HS470-T	RoHS	47	±25%	100	0.10	900	0.80 ±0.15
BK 1608HS600-T	R₀HS	60	±25%	100	0.10	800	0.80 ±0.15
BK 1608HS800-T	RoHS	80	±25%	100	0.10	600	0.80 ±0.15
BK 1608HS121-T	R₀HS	120	±25%	100	0.18	500	0.80 ±0.15
BK 1608HS241-T	R₀HS	240	±25%	100	0.25	400	0.80 ±0.15
BK 1608HS601-T	R₀HS	600	±25%	100	0.45	350	0.80 ±0.15
BK 1608HS102-T	R₀HS	1000	±25%	100	0.60	300	0.80 ±0.15
BK 1608HM121-T	R₀HS	120	±25%	100	0.20	350	0.80 ±0.15
BK 1608HM241-T	R₀HS	240	±25%	100	0.35	300	0.80 ±0.15
BK 1608HM471-T	R₀HS	470	±25%	100	0.45	250	0.80 ±0.15
BK 1608HM601-T	R₀HS	600	±25%	100	0.60	250	0.80 ±0.15
BK 1608HM102-T	R₀HS	1000	±25%	100	0.70	200	0.80 ±0.15
BK 1608LL300-T	R₀HS	30	±25%	100	0.20	500	0.80 ±0.15
BK 1608LL470-T	R₀HS	47	±25%	100	0.30	400	0.80 ±0.15
BK 1608LL560-T	R₀HS	56	±25%	100	0.30	400	0.80 ±0.15
BK 1608LL680-T	R₀HS	68	±25%	100	0.35	300	0.80 ±0.15
BK 1608LL121-T	R₀HS	120	±25%	100	0.50	300	0.80 ±0.15
BK 1608LL181-T	R₀HS	180	±25%	100	0.65	250	0.80 ±0.15
BK 1608LL241-T	R₀HS	240	±25%	100	0.80	250	0.80 ±0.15
BK 1608LL331-T	R₀HS	330	±25%	100	0.85	200	0.80 ±0.15
BK 1608LL431-T	R ₀ HS	430	±25%	100	0.85	200	0.80 ±0.15
BK 1608LL511-T	R ₀ HS	510	±25%	100	0.90	200	0.80 ±0.15
BK 1608LL681-T	R ₀ HS	680	±25%	100	1.00	150	0.80 ±0.15
BK 1608LM751-T	R₀HS	750	±25%	100	0.60	300	0.80 ±0.15
BK 1608LM152-T	R₀HS	1500	±25%	100	0.75	250	0.80 ±0.15
BK 1608LM182-T	RoHS	1800	±25%	100	0.85	200	0.80 ±0.15
BK 1608LM252-T	RoHS	2500	±25%	100	1.10	200	0.80 ±0.15
BK 1608TS431-T	RoHS	430	±25%	100	0.21±30%	400	0.80 ±0.15
BK 1608TS601-T	RoHS	600	±25%	100	0.27±30%	350	0.80 ±0.15
BK 1608TS102-T	RoHS	1000	±25%	100	0.30±30%	300	0.80 ±0.15

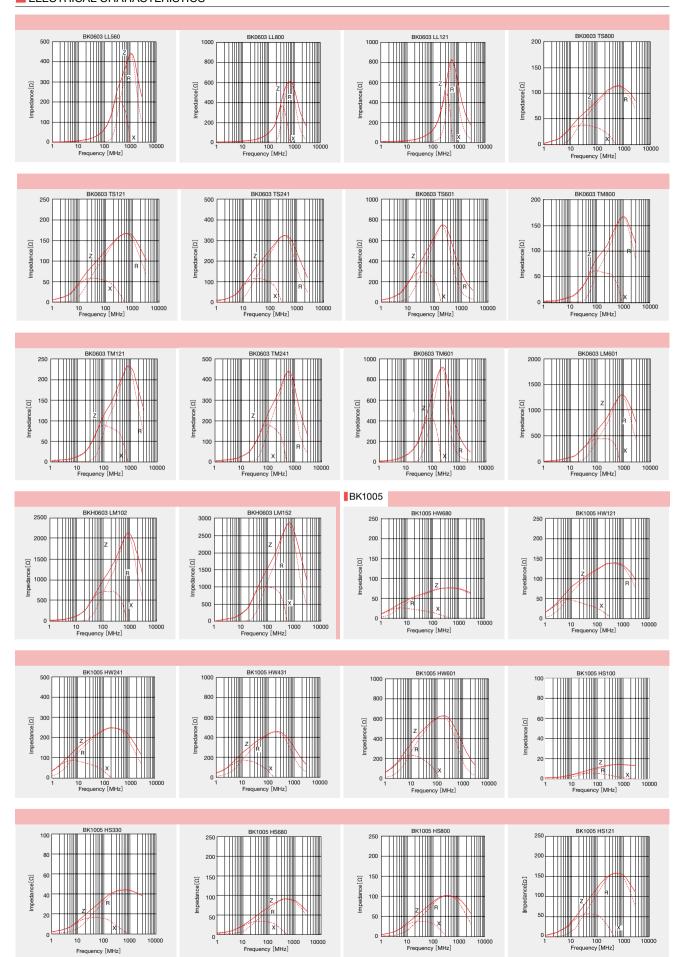
BK 2125

Parts number	EHS	Nominal impedance [Ω]	Impedance tolerance	Measuring frequency [MHz]	DC Resistance $[\Omega]$ (max.)	Rated current [mA] (max.)	Thickness [mm]
BK 2125HS150-T	R₀HS	15	±25%	100	0.05	1,200	0.85 ±0.2
BK 2125HS220-T	R₀HS	22	±25%	100	0.05	1,200	0.85 ±0.2
BK 2125HS330-T	R₀HS	33	±25%	100	0.05	1,200	0.85 ±0.2
BK 2125HS470-T	R ₀ HS	47	±25%	100	0.05	1,000	0.85 ±0.2
BK 2125HS750-T	R ₀ HS	75	±25%	100	0.10	1,000	0.85 ±0.2
BK 2125HS101-T	R ₀ HS	100	±25%	100	0.10	900	0.85 ±0.2
BK 2125HS121-T	R₀HS	120	±25%	100	0.15	800	0.85 ±0.2
BK 2125HS241-T	R ₀ HS	240	±25%	100	0.20	600	0.85 ±0.2
BK 2125HS431-T	R ₀ HS	430	±25%	100	0.25	500	0.85 ±0.2
BK 2125HS601-T	R ₀ HS	600	±25%	100	0.30	500	0.85 ±0.2
BK 2125HS102-T	R ₀ HS	1000	±25%	100	0.40	300	0.85 ±0.2
BK 2125HM121-T	R ₀ HS	120	±25%	100	0.15	800	0.85 ±0.2
BK 2125HM241-T	R ₀ HS	240	±25%	100	0.20	600	0.85 ±0.2
BK 2125HM471-T	R ₀ HS	470	±25%	100	0.25	500	0.85 ±0.2
BK 2125HM601-T	R ₀ HS	600	±25%	100	0.25	500	0.85 ±0.2
BK 2125HM102-T	R ₀ HS	1000	±25%	100	0.35	400	0.85 ±0.2
BK 2125LL560-T	R ₀ HS	56	±25%	100	0.20	600	0.85 ±0.2
BK 2125LL121-T	R ₀ HS	120	±25%	100	0.30	400	0.85 ±0.2
BK 2125LL241-T	R ₀ HS	240	±25%	100	0.35	300	0.85 ±0.2
BK 2125LM751-T	RoHS	750	±25%	100	0.30	400	0.85 ±0.2
BK 2125LM152-T	RoHS	1500	±25%	100	0.35	400	0.85 ±0.2
BK 2125LM182-T	RoHS	1800	±25%	100	0.45	300	1.25 ±0.2
BK 2125LM252-T	RoHS	2500	±25%	100	0.75	200	1.25 ±0.2

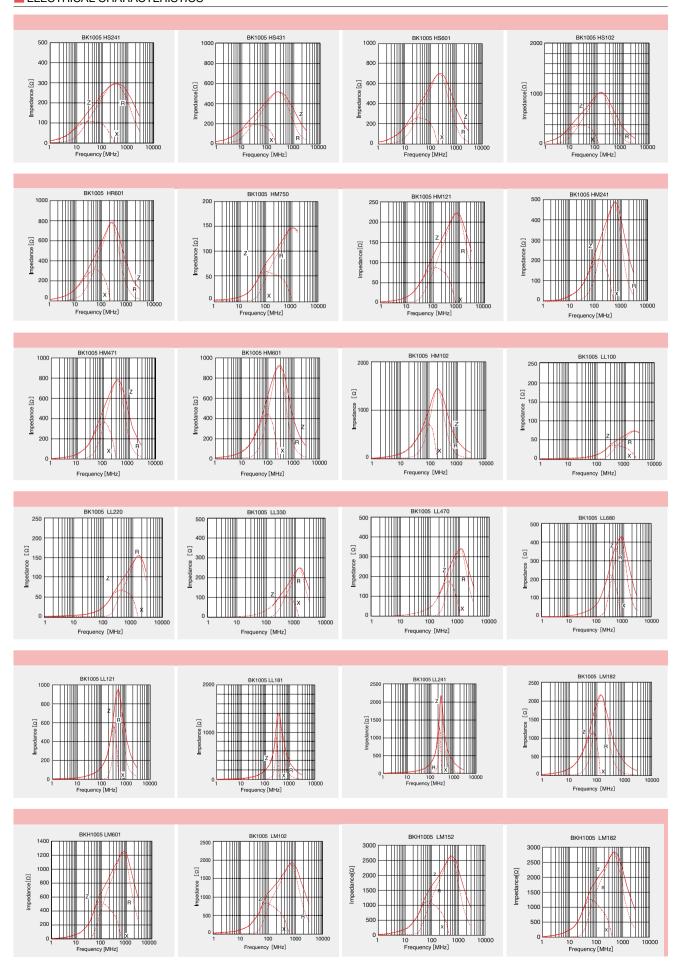
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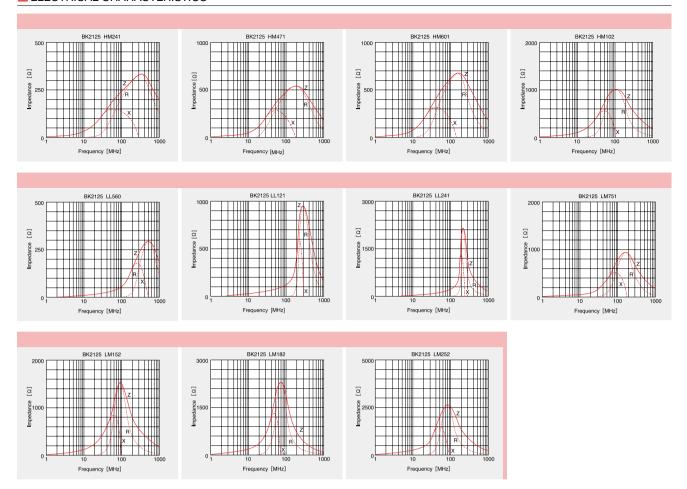
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Multilayer chip inductors Multilayer chip inductors for high frequency, Multilayer chip bead inductors Multilayer common mode choke coils (MC series F type)

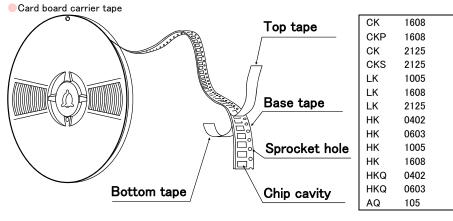
■PACKAGING

1 Minimum Quantity

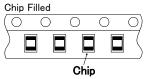
Tape & Reel Packaging			
Type	Thickness	Standard Q	uantity [pcs]
туре	mm(inch)	Paper Tape	Embossed Tape
CK1608 (0603)	0.8 (0.031)	4000	_
CK2125 (0805)	0.85(0.033)	4000	_
GN2123 (0003)	1.25 (0.049)	_	2000
OKC010E (000E)	0.85(0.033)	4000	_
CKS2125 (0805)	1.25(0.049)	_	2000
CKP1608 (0603)	0.8 (0.031)	4000	_
CKP2012 (0805)	0.9 (0.035)	_	3000
CKP2016 (0806)	0.9 (0.035)	_	3000
	0.7 (0.028)	_	3000
CKP2520 (1008)	0.9 (0.035)	_	3000
	1.1 (0.043)	_	2000
NM2012 (0805)	0.9 (0.035)	_	3000
	0.9 (0.035)	_	3000
NM2520(1008)	1.1 (0.043)	_	2000
LK1005(0402)	0.5 (0.020)	10000	_
LK1608(0603)	0.8 (0.031)	4000	_
	0.85 (0.033)	4000	_
LK2125 (0805)	1.25(0.049)	_	2000
HK0402 (01005)	0.2 (0.008)	20000	
HK0603 (0201)	0.3 (0.012)	15000	_
HK1005 (0402)	0.5 (0.020)	10000	_
HK1608 (0603)	0.8 (0.031)	4000	_
111(1000(0000)	0.85 (0.033)	_	4000
HK2125 (0805)	1.0 (0.039)	_	3000
HKQ0402(01005)	0.2 (0.008)	20000	40000
HKQ0603W(0201)	0.3 (0.012)	15000	-
HKQ0603C (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	_
DI(1000(0000)	0.85 (0.033)	4000	_
BK2125 (0805)	1.25(0.049)	4000	2000
BK2010(0804)	0.45 (0.018)	4000	2000
	0.43(0.018)	4000	4000
BK3216(1206) BKP0603(0201)		15000	4000
	0.3 (0.012)	15000	
BKP1005 (0402)	0.5 (0.020) 0.8 (0.031)	10000 4000	-
BKP1608 (0603)			
BKP2125 (0805)	0.85 (0.033)	4000	
MCF0605(0202)	0.3 (0.012)	15000	10000
MCF0806(0302)	0.4 (0.016)	_	10000
MCF1210(0504)	0.55(0.022)	_	5000
MCF2010(0804)	0.45 (0.018)	_	4000

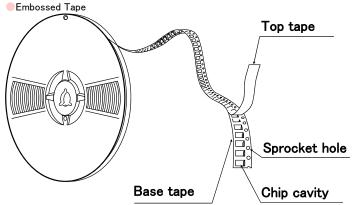
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②Taping material



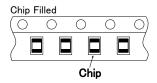
BK	0402
BK	0603
BK	1005
BK	1608
BK	2125
BK	2010
BKP	0603
BKP	1005
BKP	1608
BKP	2125
BKH	0603
BKH	1005
MCF	0605





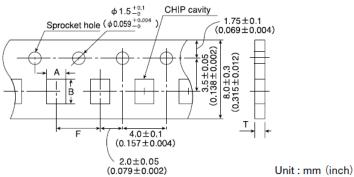
CK	2125	
CKS	2125	
CKP	2012	
CKP	2016	
CKP	2520	
NM	2012	
NM	2520	
LK	2125	
HKQ	0402	
HK	2125	

BK	2125
BK	3216
MCF	0806
MCF	1210
MCF	2010



3 Taping Dimensions

Paper tape (8mm wide)



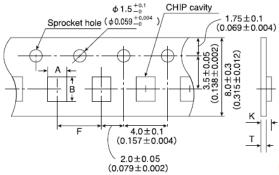
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T	Thickness	Chip	cavity	Insertion Pitch	Tape Thickness
Туре	mm(inch)	Α	В	F	Т
01(1000(0000)	0.0 (0.001)	1.0±0.2	1.8±0.2	4.0±0.1	1.1max
CK1608 (0603)	0.8 (0.031)	(0.039 ± 0.008)	(0.071 ± 0.008)	(0.157 ± 0.004)	(0.043max)
01/0405 (0005)	0.05 (0.000)	1.5±0.2	2.3±0.2	4.0±0.1	1.1max
CK2125 (0805)	0.85(0.033)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.043max)
01(00105(0005)	0.05 (0.000)	1.5±0.2	2.3±0.2	4.0±0.1	1.1max
CKS2125 (0805)	0.85(0.033)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.043max)
01(01000(0000)	0.0 (0.004)	1.0±0.2	1.8±0.2	4.0±0.1	1.1max
CKP1608 (0603)	0.8 (0.031)	(0.039 ± 0.008)	(0.071 ± 0.008)	(0.157 ± 0.004)	(0.043max)
	()	0.65±0.1	1.15±0.1	2.0±0.05	0.8max
LK1005(0402)	0.5 (0.020)	(0.026 ± 0.004)	(0.045 ± 0.004)	(0.079 ± 0.002)	(0.031max)
		1.0±0.2	1.8±0.2	4.0±0.1	1.1max
LK1608(0603)	0.8 (0.031)	(0.039 ± 0.008)	(0.071 ± 0.008)	(0.157 ± 0.004)	(0.043max)
		1.5±0.2	2.3±0.2	4.0±0.1	1.1max
LK2125 (0805)	0.85 (0.033)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157±0.004)	(0.043max)
		0.25±0.04	0.45±0.04	2.0±0.05	0.36max
HK0402 (01005)	0.2 (0.008)	(0.010 ± 0.002)	(0.018 ± 0.002)	(0.079 ± 0.002)	(0.014max)
		0.40±0.06	0.70±0.06	2.0±0.05	0.45max
HK0603(0201)	0.3 (0.012)		(0.028 ± 0.002)		(0.018max)
		(0.016±0.002)	· · · · · · · · · · · · · · · · · · ·	(0.079±0.002)	
HK1005 (0402)	0.5 (0.020)	0.65 ± 0.1	1.15±0.1	2.0±0.05	0.8max
		(0.026±0.004)	(0.045 ± 0.004)	(0.079±0.002)	(0.031max)
HK1608 (0603)	0.8 (0.031)	1.0±0.2	1.8±0.2	4.0±0.1	1.1max
		(0.039 ± 0.008)	(0.071 ± 0.008)	(0.157±0.004)	(0.043max)
HKQ0402 (01005)	0.2 (0.008)	0.25±0.04	0.45 ± 0.04	2.0±0.05	0.36max
. , ,	, ,	(0.010 ± 0.002)	(0.018±0.002)	(0.079±0.002)	(0.014max)
HKQ0603W(0201)	0.3 (0.012)	0.40 ± 0.06	0.70±0.06	2.0±0.05	0.45max
,		(0.016±0.002)	(0.028 ± 0.002)	(0.079 ± 0.002)	(0.018max)
HKQ0603C(0201)	0.3 (0.012)	0.40 ± 0.06	0.70 ± 0.06	2.0±0.05	0.45max
111(400000 (0201)	0.0 (0.012)	(0.016±0.002)	(0.028 ± 0.002)	(0.079 ± 0.002)	(0.018max)
HKQ0603S(0201)	0.3 (0.012)	0.40 ± 0.06	0.70 ± 0.06	2.0±0.05	0.45max
HKQ00033 (0201)	0.3 (0.012)	(0.016 ± 0.002)	(0.028 ± 0.002)	(0.079 ± 0.002)	(0.018max)
HKQ0603U(0201)	0.3 (0.012)	0.40 ± 0.06	0.70 ± 0.06	2.0±0.05	0.45max
HKQ00030 (0201)	0.3 (0.012)	(0.016 ± 0.002)	(0.028 ± 0.002)	(0.079 ± 0.002)	(0.018max)
A O 1 O F (O 4 O O)	0.5 (0.000)	0.75±0.1	1.15±0.1	2.0±0.05	0.8max
AQ105(0402)	0.5 (0.020)	(0.030 ± 0.004)	(0.045 ± 0.004)	(0.079 ± 0.002)	(0.031max)
DI(0400(0400E)	0.0 (0.000)	0.25±0.04	0.45±0.04	2.0±0.05	0.36max
BK0402(01005)	0.2 (0.008)	(0.010 ± 0.002)	(0.018 ± 0.002)	(0.079 ± 0.002)	(0.014max)
D1(0000 (0001)	0.0 (0.040)	0.40±0.06	0.70±0.06	2.0±0.05	0.45max
BK0603(0201)	0.3 (0.012)	(0.016 ± 0.002)	(0.028 ± 0.002)	(0.079 ± 0.002)	(0.018max)
	()	0.65±0.1	1.15±0.1	2.0±0.05	0.8max
BK1005(0402)	0.5 (0.020)	(0.026 ± 0.004)	(0.045 ± 0.004)	(0.079±0.002)	(0.031max)
		1.0±0.2	1.8±0.2	4.0±0.1	1.1max
BK1608 (0603)	0.8 (0.031)	(0.039 ± 0.008)	(0.071 ± 0.008)	(0.157 ± 0.004)	(0.043max)
		1.5±0.2	2.3±0.2	4.0±0.1	1.1max
BK2125 (0805)	0.85 (0.033)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.043max)
		1.2±0.1	2.17±0.1	4.0±0.1	0.8max
BK2010 (0804)	0.45 (0.018)	(0.047 ± 0.004)	(0.085 ± 0.004)	(0.157 ± 0.004)	(0.031max)
		0.40±0.06	0.70±0.06	2.0±0.05	0.45max
BKP0603 (0201)	0.3 (0.012)	(0.016±0.002)	(0.028 ± 0.002)	(0.079 ± 0.002)	(0.018max)
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		(0.016max) 0.8max
BKP1005 (0402)	0.5 (0.020)	0.65 ± 0.1	1.15±0.1	2.0±0.05	
		(0.026±0.004)	(0.045 ± 0.004)	(0.079±0.002)	(0.031max)
3KP1608 (0603)	0.8 (0.031)	1.0±0.2	1.8±0.2	4.0±0.1	1.1max
		(0.039±0.008)	(0.071±0.008)	(0.157±0.004)	(0.043max)
BKP2125 (0805)	0.85 (0.033)	1.5±0.2	2.3±0.2	4.0±0.1	1.1max
(0000)	2.30 (0.000)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157±0.004)	(0.043max)
BKH0603(0201)	0.3 (0.012)	0.40 ± 0.06	0.70 ± 0.06	2.0±0.05	0.45max
DIVI 10000 (0201)	0.0 (0.012)	(0.016±0.002)	(0.028 ± 0.002)	(0.079±0.002)	(0.018max)
BKH1005(0402)	0.5 (0.020)	0.65±0.1	1.15±0.1	2.0±0.05	0.8max
(0402) בטטו דואוכ	0.3 (0.020)	(0.026 ± 0.004)	(0.045 ± 0.004)	(0.079 ± 0.002)	(0.031max)
	0.3 (0.012)	0.62±0.03	0.77±0.03	2.0±0.05	0.45max
MCF0605(0202)					

Unit: mm(inch)

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Embossed Tape (8mm wide)

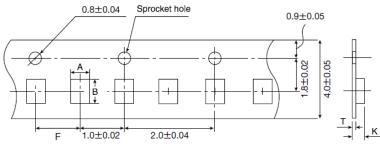


Unit: mm (inch)

T	Thickness	Chip	cavity	Insertion Pitch	Tape Th	nickness		
Туре	mm(inch)	А	В	F	F K			
CK2125(0805)	1.25(0.049)	1.5±0.2	2.3±0.2	4.0±0.1	2.0	0.3		
C1120 (0000)	1.20 (0.0 10)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.079)	2.0 0.3 079) (0.012) 2.0 0.3 079) (0.012) 2.0 0.3 079) (0.012) 1.3 0.3 051) (0.012) 1.4 0.55) 1.7 (0.012) 1.7 (0.012) 1.4 0.55) 0.3 1.7 (0.012) 1.4 0.55) 0.3 1.7 (0.012) 1.5 0.59 0.3 2.0 0.3 2.0 (0.012) 1.5 0.3 2.0		
CKS2125(0805)	1.25(0.049)	1.5±0.2	2.3±0.2	4.0±0.1	2.0			
ONO2120 (0000)	1.20 (0.040)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.079)			
CKP2012(0805)	0.9 (0.035)	1.55±0.2	2.3±0.2	4.0±0.1	1.3			
ON 2012 (0000)	0.5 (0.000)	(0.061 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.051)	T 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.25 (0.01) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012) 0.3 (0.012)		
CKP2016 (0806)	0.9 (0.035)	1.8±0.1	2.2±0.1	4.0±0.1	1.3	0.25		
CKF2010 (0000)	0.9 (0.033)	(0.071 ± 0.004)	(0.087 ± 0.004)	(0.157 ± 0.004)	(0.051)	(0.01)		
	0.7 (0.028)				1.4			
	0.7 (0.026)				(0.055)			
OKD0500 (1000)	0.0 (0.005)	2.3±0.1	2.8±0.1	4.0 ± 0.1	1.4	0.3		
CKP2520 (1008)	0.9 (0.035)	(0.091 ± 0.004)	(0.110 ± 0.004)	(0.157 ± 0.004)	(0.055)	(0.012)		
	1.1 (0.010)	7			1.7			
	1.1 (0.043)				(0.067)			
		1.55±0.2	2.3±0.2	4.0±0.1	1.3	0.3		
NM2012 (0805)	0.9 (0.035)	(0.061 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.051)	(0.012)		
					1.4			
	0.9 (0.035)	2.3±0.1 (0.091±0.004)	2.8±0.1	4.0±0.1	(0.055)			
NM2520(1008)			(0.110 ± 0.004)	(0.157 ± 0.004)	1.7			
	1.1 (0.043)		,		(0.067)	, ,		
		1.5±0.2	2.3±0.2	4.0±0.1	2.0	0.3		
LK2125 (0805)	1.25(0.049)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.079)			
		(((1.5	,,		
	0.85(0.033)	1.5±0.2	2.3±0.2 (0.091±0.008)	4.0±0.1 (0.157±0.004)	(0.059)			
HK2125(0805)		(0.059 ± 0.008)			2.0			
	1.0 (0.039)	(0.000 = 0.000)	(0.001 = 0.000)	(6.1.67 = 6.06 17	(0.079)	(5.5.2)		
		1.5±0.2	2.3±0.2	4.0±0.1		0.3		
BK2125 (0805)	1.25 (0.049)	(0.059 ± 0.008)	(0.091 ± 0.008)	(0.157 ± 0.004)	(0.079)			
		1.9±0.1	3.5±0.1	4.0±0.1	1.4			
BK3216(1206)	0.8(0.031)	(0.075 ± 0.004)	(0.138 ± 0.004)	(0.157 ± 0.004)	(0.055)			
		0.75±0.05	0.95±0.05	2.0±0.05				
MCF0806(0302)	0.4 (0.016)	(0.030 ± 0.002)	(0.037 ± 0.002)	(0.079 ± 0.002)	(0.022)			
MCF1210(0504)		1.15±0.05	1.40±0.05					
	0.55(0.022)			4.0±0.1				
		(0.045±0.002)	(0.055 ± 0.002)	(0.157±0.004)		· · ·		
MCF2010(0804)	0.45(0.018)	1.1±0.1	2.3±0.1	4.0±0.1	0.85			
	· ·	(0.043 ± 0.004)	(0.091 ± 0.004)	(0.157 ± 0.004)	(0.033)	(0.012)		

Unit: mm(inch)

Embossed Tape (4mm wide)



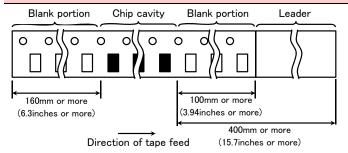
Unit: mm

	Olik Tillin						
T	Thickness	Chip cavity		Insertion Pitch	Tape Thickness		
Туре	mm(inch)	Α	В	F	K	Т	
HKQ0402(01005)	0.2 (0.008)	0.23	0.43	1.0±0.02	0.5max.	0.25max.	

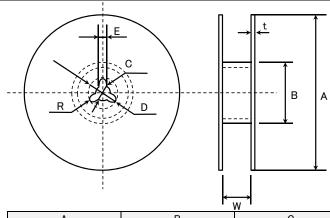
Unit : mm

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4LEADER AND BLANK PORTION



⑤Reel Size



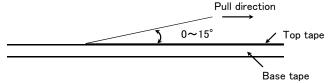
Α	В	С	D	E	R
ϕ 178 ± 2.0	ϕ 50 or more	ϕ 13.0 \pm 0.2	ϕ 21.0 ± 0.8	2.0±0.5	1.0

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

(Unit: mm)

6Top tape strength

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



Multilayer chip inductors Multilayer chip inductors for high frequency, Multilayer chip bead inductors Multilayer common mode choke coils (MC series F type)

■RELIABILITY DATA

1. Operating Temp	erature Range				
	BK0402				
	BK0603				
	BK1005				
	BKH0603				
	BKH1005		-55~+125°C		
	BK1608				
	BK2125				
	ARRAY	BK2010			
	ANIVAT	BK3216			
	BKP0603				
	BKP1005				
	BKP1608		35.4 1 65 6		
	BKP2125				
	MCF 0605				
	MCF 0806		-40~+85°C		
	MCF 1210		-		
	MCF 2010				
	CK1608				
Specified Value	CK2125		-		
	CKS2125		_		
	CKP1608				
	CKP2012				
	CKP2016		-40~+85°C		
	CKP2520				
	NM2012 NM2520				
	LK1005				
	LK1608				
	LK2125				
	HK0402/HKQ	0402			
	HK0603	0402			
	HK1005		00 1 120 0		
	HK1608				
	HK2125		— −40~+85°C		
		HKQ0603C/HKQ0603S/			
	HKQ0603U/		-55~+125°C		
	AQ105				

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2. Storage Temperature Range							
BK0603 BK1005 BK1005 BK1005 BK11005 BK11005 BK11005 BK1608 BK2125 BK2010 BK216 BK2010 BK216 BK2010 BK2010	2. Storage Temper						
BK1005							
BKH0603		BK0603					
BKH1005		BK1005					
BK1608 BK2125 ARRAY BK90603 BKP1005 BKP1005 BKP1008 BKP1215 MCF 0805 MCF 0806 MCF 1210 MCF 2010 CK1608 CK2125 CKP1608 CK22125 CKP1608 CK22125 CKP2016 CKP2012 CKP2016 CKP2012 HK1608 Lk2125 HK0402/HKQ0402 HK0603 HK1005 HK100603W/HKQ0603C/HKQ0603S/		BKH0603					
BK2125 ARRAY BK2010 BK90603 BKP1005 BKP1608 BKP2125 MCF 0805 MCF 0806 MCF 1210 MCF 2010 CK1608 CK2125 CK92012 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK1005 HK100603W/HKQ0603C/HKQ0603S/		BKH1005					
ARRAY		BK1608					
ARRAY BK3216 BKP0003 BKP1005		BK2125					
BK90603 BKP0603 BKP1005 BKP1608 BKP2125 MCF 0605 MCF 0806 MCF 1210 MCF 2010 CK1608 CK2125 CK2125 CK2125 CK2125 CKP2012 CKP2012 CKP2012 CKP2012 CKP2520 NM2012 NM2520 LK1005 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1008 HK2125 HK00603W/HKQ0603C/HKQ0603S/		ADDAV	BK2010				
BKP1005 BKP1608 BKP2125 MCF 0605 MCF 0806 MCF 1210 MCF 2010 CK1608 CK2125 CK2125 CK2125 CKP2012 CKP2012 CKP2012 CKP2012 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		ARRAT	BK3216				
BKP1608 BKP2125 MCF 0605 MCF 0806 MCF 1210 MCF 2010 CK1608 Specified Value Specified Value CK2125 CKP1608 CKP2012 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK2125 HK1068 HK2125 HK1068 HK2125 HK1068 HK2125 HK0603W/HKQ0603C/HKQ0603S/		BKP0603					
BKP1608 BKP2125 MCF 0605 MCF 0806 MCF 1210 MCF 2010 CK1608 CK2125 CKS2125 CKP1608 CKP2016 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK2125 HK1005 HK1608 HK2125 HK1005 HK1608 HK2125 HK00603W/HKQ0603C/HKQ0603S/		BKP1005					
MCF 0806 MCF 0806 MCF 1210 MCF 2010 CK1608 Specified Value CK2125 CK2125 CK2125 CKP1608 CKP2016 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1005 LK1005 HK0603 HK1005 HK1005 HK1608 HK2125 HK00603W/HKQ0603C/HKQ0603S/		BKP1608					
MCF 0806		BKP2125					
MCF 1210 MCF 2010 CK1608 Specified Value CK2125 CKS2125 CKP1608 CKP2012 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK1215 HK1608 HK2125 HK00603K/HKQ0603C/HKQ0603S/		MCF 0605					
MCF 2010		MCF 0806					
CK1608		MCF 1210		7 -40~ +80 0			
CK2125		MCF 2010					
CKS2125 CKP1608 CKP2012 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK125 HK1608 HK2125 HK40603W/HKQ0603C/HKQ0603S/		CK1608					
CKP1608 CKP2012 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK12125 HK1608 HK2125 HK0603 HK1608 HK2125 HK1608 HK2125 HK0603 HK1608 HK2125 HK0603 HK1608 HK2125 HK0603 HK1608 HK2125	Specified Value	CK2125					
CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK1005 HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		CKS2125					
CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1008 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1005 HK1005 HK1008 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/							
CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1005 HK1005 HK108 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		CKP2012					
CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK0603 HK1005 HK1005 HK1005 HK1005 HK1005 HK1008 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		CKP2016					
NM2520 LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 -55~+125°C HK1005 HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		CKP2520		- 1 −40~+85 C			
LK1005 LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		NM2012					
LK1608 LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		NM2520					
LK2125 HK0402/HKQ0402 HK0603 HK1005 HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		LK1005		1			
HK0402/HKQ0402 HK0603 HK1005 HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		LK1608					
HK0603		LK2125					
HK1005 HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		HK0402/HKG	0402				
HK1608 HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		HK0603		_55~+125°C			
HK2125 —40~+85°C HKQ0603W/HKQ0603C/HKQ0603S/		HK1005					
HK2125 HKQ0603W/HKQ0603C/HKQ0603S/		HK1608		_40~.+9E°C			
		HK2125					
LUKO060311/		HKQ0603W/H	HKQ0603C/HKQ0603S/				
		HKQ0603U/					
AQ105		AQ105					

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3. Rated Current	1				
	BK0402		150~750mA DC		
	BK0603		100~500mA DC		
	BK1005		120~1000mA DC		
	BKH0603		115~160mA DC		
	BKH1005		200∼300mA DC		
	BK1608		150~1500mA DC		
	BK2125		200~1200mA DC		
	ARRAY	BK2010	100mA DC		
	ARRAT	BK3216	100~200mA 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		0.1A DC		
	MCF 2010		0.1A DC		
	CK1608		50∼60mA DC		
	CK2125		60∼500mA DC		
0 :5 1)/ 1	CKS2125		110~280mA DC		
Specified Value	CKP1608		0.35~0.9A DC		
	CKP2012		0.7~1.2A 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		
	HK0402		160∼380mA 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		90∼500mA DC		
	HKQ0603W		100~850mA DC		
	HKQ0603C		160∼850mA DC		
	HKQ0603S		130~600mA DC		
	HKQ0603U		190∼900mA DC		

Definition of rated current:

AQ105

- •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 and CK Series P type, NM Series the rated current is the value of current at which the temperature of the element is increased within

280~710mA DC

•In the LK, HKQ, and AQ Series, the rated current is either the DC value at which the internal 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.

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4. Impedance			
<u> </u>	BK0402		$10\sim180Ω$ $\pm5Ω(10Ω)$, $\pm25\%(Other)$
	BK0603		10~600Ω ±25%
	BK1005		10~1800Ω ±25%
	BKH0603		600~1500Ω ±25%
	BKH1005		600~1800Ω ±25%
	BK1608		22~2500Ω ±25%
	BK2125		15~2500Ω ±25%
	BK2010		5~1000Ω ±25%
	ARRAY BK3216		60~1000Ω ±25%
	BKP0603		$10\sim120\Omega$ $\pm5\Omega(10\Omega)$, $\pm25\%(Other)$
	BKP1005		$10\sim330\Omega$ ±5Ω(EM100), ±25%(Other)
	BKP1608		33~470Ω ±25%
	BKP2125		33~330Ω ±25%
	MCF 0605		$12\sim90\Omega$ $\pm5\Omega(12\Omega)$, $\pm20\%(35\Omega)$, $\pm25\%(Other)$
	MCF 0806		$12\sim90\Omega$ $\pm5\Omega(12\Omega)$, $\pm20\%(Other)$
	MCF 1210		40~90Ω ±25%
	MCF 2010		90Ω ±25%
	CK1608		
Specified Value	CK2125		
	CKS2125		
	CKP1608		
	CKP2012		
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		
	LK1005		
	LK1608		_
	LK2125		
	HK0402/HKQ0402		
	HK0603		
	HK1005		
	HK1608		
	HK2125		
	HKQ0603W/HKQ0603C/	HKQ0603S/	
	HKQ0603U		
	AQ105		
	BK0402Series		
	Measuring frequency	: 100±1MHz	
	Measuring equipment	: E4991A(or its 6	equivalent)
	Measuring jig	: 16197A(or its e	equivalent)
	BK0603Series, BKP0603	Series	
	Measuring frequency	: 100±1MHz	
	Measuring equipment	: 4291A (or its ed	•
	Measuring jig : 16193A(or its e		
	BK1005Series, BKP1005		ies
Test Methods and	Measuring frequency	: 100±1MHz	
Remarks	Measuring equipment	: 4291A(or its ed	quivalent) equivalent), 16193A(or its equivalent)
	Measuring jig		equivalent), 10193A(or its equivalent)
	BK1608 • 2125Series, BKP1608 • 2125Series Measuring frequency : 100±1MHz		
	Measuring frequency		quivalent), 4195A(or its equivalent)
	= ::		equivalent) or 16192A(or its equivalent)/HW
	BK2010 · 3216Series, MC		
	Measuring frequency	: 100±1MHz	
	Measuring equipment		guivalent), 4195A(or its equivalent)
	Measuring jig	: 16192A(or its e	
		,	

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5. Inductance			
J. Inductance	BK0402		
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	BK2010		
	ARRAY BK3216		_
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		4.7~10.0 μ H: ±20%
	CK2125		0.1~10.0 μ H: ±20%
	CKS2125		1.0~10.0 μ H: ±20%
Specified Value	CKP1608		0.33~2.2 μ H: ±20%
	CKP2012		0.47~4.7 μ H: ±20%
	CKP2016		0.47~4.7 μ H: ±20%
	CKP2520		0.47~4.7 μ H: ±20%
	NM2012		0.82~1.0 μ H: ±20%
	NM2520		1.0~2.2 µ H: ±20%
	LK1005		0.12~2.2 μ H: ±10 or 20%
	LK1608		0.047~33.0 μ H: ±20% 0.10~12.0 μ H: ±10%
	LK2125		0.047~33.0 μ H: ±20% 0.10~12.0 μ H: ±10%
	HK0402		1.0~5.6nH: ±0.3nH 6.8~12nH: ±5%
	HK0603		1.0~6.2nH: ±0.3nH 6.8~100nH: ±5%
	HK1005		1.0~6.2nH: ±0.3nH 6.8~270nH: ±5%
	HK1608		1.0~5.6nH: ±0.3nH 6.8~470nH: ±5%
	HK2125		1.5~5.6nH: ±0.3nH 6.8~470nH: ±5%
	HKQ0402		0.5~3.9nH: ±0.1 or 0.2 or 0.3nH 4.3~5.6nH: ±0.3nH or 3% 6.2~27nH: ±3 or 5%
	HKQ0603W		0.6~3.9nH: ±0.1 or 0.2 or 0.3nH 4.3~6.2nH: ±0.2 or 0.3nH or 3 or 5%
	HKQ0603C		6.8~100nH: ±3 or 5% 0.6~3.9nH: ±0.1 or 0.2 or 0.3nH 4.3~6.2nH: ±0.2 or 0.3nH 6.8~22nH: ±3 or 5%
	HKQ0603C		0.6~6.2nH: ±0.2 or 0.3nH 6.8~22nH: ±3 or 5%
	HKQ0603U		0.6~4.2nH: ±0.1 or 0.2 or 0.3nH 4.3~6.5nH: ±0.2 or 0.3nH 6.8~22nH: ±3 or 5%
	AQ105		1.0~6.2nH: ±0.3nH 6.8~15nH: ±5%
	CK, LK, CKP, NM Series		1.0 0.2111. 20.0111 0.0 101111. 2010
	Measuring frequency	: 2~4MHz(CK	1608)
	Measuring frequency	: 2~25MHz(C	
	Measuring frequency	: 2~10MHz(C	KS2125)
	Measuring frequency	: 10~25MHz(l	_K1005)
	Measuring frequency	: 1~50MHz(LI	K1608)
	Measuring frequency	: 0.4~50MHz(LK2125)
	Measuring frequency	•	008 · CKP2012 · CKP2016 · CKP2520 · NM2012 · NM2520)
	Measuring equipment /jig		35B+16092A(or its equivalent)
			51+16092A(or its equivalent)
			92A(or its equivalent)
To at Mother de and			93A(or its equivalent)/LK1005
Test Methods and Remarks	Managemina	:•1mA rms(0.0	41A+42842C+42851-61100(CKP1608·CKP2012·CKP2016·CKP2520·NM2012·NM2520)
Remarks	Measuring current	*0.1mA rms(
	HK, HKQ, AQ Series	0.1111/(11113)(υ.υ συμτη
	Measuring frequency	: 100MHz(HK0	402 • HK0603 • HK1005 • AQ105)
	Measuring frequency	: 50/100MHz(H	HK1608 · HK2125)
	Measuring frequency	: 500MHz(HKG	0603C·HKQ0603S·HKQ0603U)
	Measuring frequency	: 300/500MHz	(HKQ0603W)
	Measuring frequency	: 100/500MHz	(HKQ0402)
	Measuring equipment /jig		97A(or its equivalent)/HK0603•AQ105
			93A(or its equivalent)/HK1005
			in 197A (or its equivalent) /HKQ0603S • HKQ0603U • HKQ0603W • HKQ0603C
			192A + in-house made jig(or its equivalent)/HK1608•HK2125
	l .	•E4991A+16	i196D(or its equivalent)/HK0402 · HKQ0402

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6. Q			
	BK0402		
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		
	BK2125		
	10041/	BK2010	
	ARRAY	BK3216	1_
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		
	MCF 0806		
	MCF 1210		
	MCF 2010		
	CK1608		
	CK2125		
Cassified Value	CKS2125		
Specified Value	CKP1608		
	CKP2012		1 –
	CKP2016		
	CKP2520		
	NM2012		
	NM2520		
	LK1005		10~20 min.
	LK1608		10~35 min.
	LK2125		15∼50 min.
	HK0402		3 min.
	HK0603		4~5 min.
	HK1005		8 min.
	HK1608		8∼12 min.
	HK2125		10~18 min.
	HKQ0402		3~8 min.
	HKQ0603W		6~15 min.
	HKQ0603C		14~15 min.
	HKQ0603S		10~13 min.
	HKQ0603U		14 min.
	AQ105 LKSeries		8 min.
		guency : 10~25MHz(LK	(1005)
	Measuring frequency : 10~25MHz(LK) Measuring frequency : 1~50MHz(LK1)		
	Measuring free		
	_	uipment /jig :•4194A+16085	
			1+16092A(or its equivalent)
		•4294A + 16192	2A(or its equivalent)
			3A(or its equivalent)/LK1005
	Measuring cur		·
Test Methods and		•0.1mA rms(5.6	6~33 μ H)
Remarks	HK, HKQ, AQ		20 HV0000 HV400F A 040F)
	Measuring free		02+HK0603+HK1005+AQ105)
	Measuring free Measuring free		603C·HKQ0603S·HKQ0603U)
	Measuring free		
	Measuring free		
			A(or its equivalent)/HK0603•AQ105
	modelaning equ		3A(or its equivalent)/HK1005
			97A(or its equivalent)/HKQ0603S•HKQ0603U•HKQ0603W•HKQ0603C
			2A + in-house made jig(or its equivalent)/HK1608, HK2125
			96D (or its equivalent) HK0402 • HKQ0402

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	BK0402		0.07~0.75Ω max.
	BK0603		0.065~1.50Ω max.
	BK1005		0.03~0.90Ω max.
	BKH0603		1.50~3.20Ω max.
	BKH1005		0.85~2.00Ω max.
	BK1608		0.05~1.10Ω max.
	BK2125		0.05~0.75Ω max.
	ABBAY	BK2010	0.10~0.90Ω max.
	ARRAY	BK3216	0.15~0.80Ω max.
	BKP0603		0.030~0.180Ω max.
	BKP1005		0.0273~0.220Ω max.
	BKP1608		0.025~0.18Ω max.
	BKP2125		0.020∼0.075Ω max.
	MCF 0605		2.5~6.5Ω max
	MCF 0806		2.5~6.5Ω max.
	MCF 1210		2.5~4.5Ω max.
	MCF 2010		4.5Ω max.
	CK1608		$0.45 \sim 0.85 \Omega \ (\pm 30\%)$
	CK2125		0.16~0.65Ω max.
	CKS2125		0.12~0.52Ω max.
pecified Value	CKP1608		0.15~0.35Ω max.
	CKP2012		0.08~0.28Ω max.
	CKP2016		0.075~0.20Ω max
	CKP2520		0.05~0.16Ω max.
	NM2012		0.10~0.15Ω max.
	NM2520		0.11~0.22Ω max.
	LK1005		0.41~1.16Ω max.
	LK1608		0.2~2.2Ω max.
	LK2125		0.1~1.1Ω max.
	HK0402		0.18~0.99Ω max.
	HK0603		0.11~3.74Ω max.
	HK1005		0.08~4.8Ω max.
	HK1608		0.05~2.6Ω max.
	HK2125		0.10~1.5Ω max.
	HKQ0402		0.08∼2.24Ω max.
	HKQ0603W		0.07~4.1Ω max.
	HKQ0603C		0.07∼1.6Ω max.
	HKQ0603S		0.06~1.29Ω max.
	HKQ0603U		0.06∼1.29Ω max.
	AQ105		0.07~0.45Ω max.

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	(2)					
8. Self Resonance F	Resonance Frequency (SRF)					
	BK0402					
	BK0603					
	BK1005					
	BKH0603					
	BKH1005					
	BK1608					
	BK2125					
	ARRAY BK2010					
	BK3216					
	BKP0603					
	BKP1005					
	BKP1608					
	BKP2125					
	MCF 0605					
	MCF 0806					
	MCF 1210					
	MCF 2010					
	CK1608	17~25MHz min.				
	CK2125	24~235MHz min.				
Specified Value	CKS2125	24~75MHz min.				
Specified value	CKP1608					
	CKP2012					
	CKP2016					
	CKP2520					
	NM2012					
	NM2520					
	LK1005	40~180MHz min.				
	LK1608	9∼260MHz min.				
	LK2125	13∼320MHz min.				
	HK0402	2900 ~ 10000MHz min.				
	HK0603	900∼10000MHz min.				
	HK1005	400∼10000MHz min.				
	HK1608	300∼10000MHz min.				
	HK2125	200∼4000MHz min.				
	HKQ0402	1700∼10000MHz min.				
	HKQ0603W	800∼10000MHz min.				
	HKQ0603C	2500 ~ 10000MHz min.				
	HKQ0603S	1900∼10000MHz min.				
	HKQ0603U	1900∼10000MHz min.				
	AQ105	2300∼10000MHz min.				
	LK, CK Series :	•				
Total Made		5A(or its equivalent)				
Test Methods and Remarks		51+16092A (or its equivalent)				
nemarks	HK, HKQ, AQ Series:					
	Measuring equipment : 871	9C(or its equivalent) •8753D(or its equivalent)/HK2125				

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9. Temperature Characteristic						
	BK0402					
	BK0603					
	BK1005					
	BKH0603					
	BKH1005					
	BK1608					
	BK2125					
	ARRAY	BK2010				
	ARRAT	BK3216				
	BKP0603					
	BKP1005					
	BKP1608					
	BKP2125					
	MCF 0605					
	MCF 0806		_			
	MCF 1210					
	MCF 2010					
	CK1608					
	CK2125					
0 'C 17/1	CKS2125					
Specified Value	CKP1608					
	CKP2012					
	CKP2016					
	CKP2520					
	NM2012					
	NM2520					
	LK1005					
	LK1608					
	LK2125					
	HK0402					
	HK0603		Inductance change: Within ±10%			
	HK1005					
	HK1608					
	HK2125					
	HKQ0402					
	HKQ0603W					
	HKQ0603C					
	HKQ0603S					
	HKQ0603U					
	AQ105					
Total Made	HK, HKQ, AQ	Series:				
Test Methods and	Temperature					
Remarks	Reference ter	mperature : +20°C				

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10. Resistance to Flexure of Substrate BK0402 BK0603 BK1005 BKH0603 BKH1005 BK1608 BK2125 BK2010 ARRAY BK3216 BKP0603 BKP1005 BKP1608 BKP2125 MCF 0605 MCF 0806 MCF 1210 MCF 2010 CK1608 CK2125 CKS2125 Specified Value No mechanical damage. CKP1608 CKP2012 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402 HK0603 HK1005 HK1608 HK2125 HKQ0402 HKQ0603W HKQ0603C HKQ0603S HKQ0603U AQ105 : 2mm(BK Series without 0402size, BKP, BKH1005, CK, CKS, CKP, NM, LK, HK, HKQ0603S, HKQ0603U, Warp AQ Series, MCF1210) : 1mm(BK0402, BKH0603, HK0402, HKQ0402, HKQ0603W, HKQ0603C Series, MCF Series without 1210 size,) Testing board : glass epoxy-resin substrate Thickness : 0.8mm Test Methods and Remarks Board Warp 45 45 (Unit:mm)

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11 0-14				
11. Solderability	DKO400			
	BK0402 BK0603			
	BK1005			
	BKH0603			
	BKH1005			
	BK1608			
	BK2125	Divocate		
	ARRAY	BK2010		
	DICEOCOC	BK3216		At least 75% of terminal electrode is covered by new solder.
	BKP0603			
	BKP1005			
	BKP1608			
	BKP2125			
	MCF 0605			
	MCF 0806			
	MCF 1210			
	MCF 2010			
	CK1608			
	CK2125			
Specified Value	CKS2125			
opecified value	CKP1608			
	CKP2012			
	CKP2016			
	CKP2520			
	NM2012			
	NM2520			
	LK1005			
	LK1608			At least 75% of terminal electrode is covered by new solder.
	LK2125			
	HK0402			
	HK0603			
	HK1005			
	HK1608			
	HK2125			
	HKQ0402			
	HKQ0603W			
	HKQ0603C			
	HKQ0603S			
	HKQ0603U			
	AQ105			
Tark Mathematical	Solder tempera	ature	:230±5°C (JIS Z	3282 H60A or H63A)
Test Methods and	Solder temperature : 245±3°C (Sn/3.0.			Ag/0.5Cu)
Remarks	Duration :4±1 sec.			

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12. Resistance to S					
	BK0402				
	BK0603				
	BK1005				
	BKH0603				
	BKH1005				
	BK1608			Appearance: No significant abnormality	
	BK2125			Impedance change: Within ±30%	
	ARRAY	BK2010		Impodunde drange. Hidim 20070	
		BK3216			
	BKP0603				
	BKP1005				
	BKP1608				
	BKP2125				
	MCF 0605				
	MCF 0806			Appearance: No significant abnormality	
	MCF 1210			Impedance change: Within ±20%	
	MCF 2010				
	CK1608				
	CK2125			No mechanical damage. Remaining terminal electrode: 70% min	
	CKS2125			Remaining terminal electrode. 70% min	
	CKP1608			Inductance change	
	CKP2012			R10~4R7: Within ±10%	
Specified Value	CKP2016			6R8~100: Within ±15% CKS2125: Within ±20% CKP1608, CKP2012, CKP2016, CKP2520, NM2012, NM2520: Within ±30%	
	CKP2520				
	NM2012				
	NM2520				
	LK1005			No mechanical damage.	
				Remaining terminal electrode: 70% min.	
				Inductance change: Within ±15% No mechanical damage.	
	LK1608			Remaining terminal electrode: 70% min.	
	LK2125			Inductance change	
				47N~4R7: Within ±10%	
				5R6~330: Within ±15%	
	HK0402				
	HK0603				
	HK1005				
	HK1608				
	HK2125			No mechanical damage.	
	HKQ0402			Remaining terminal electrode: 70% min.	
	HKQ0603W			Inductance change: Within ±5%	
	HKQ0603C				
	HKQ0603S				
	HKQ0603U				
	AQ105				
	Solder tempera	nture	:260±5°C		
	Duration		:10±0.5 sec.		
Test Methods and	Preheating temperature :150 to 180°C				
Remarks	Preheating time :3 min.				
				o methanol solution with colophony for 3 to 5 sec.	
				recovery under the standard condition after the test.(See Note 1)	

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	Annearance : No. s	Appearance: No significant abnormality		
		Impedance change: Within ±30%		
I ARRAY				
BK3216				
BKP1608				
BKP2125				
MCF 0605				
	Appearance:No s	ignificant abnormality		
	Impedance chang	e: Within ±20%		
MCF 2010				
CK1608		=		
		Inductance change: Within ±20% Q change: Within ±30% Inductance change: Within ±20% (CKS2125)		
	Inductance chang			
CKP1608				
CKP2012				
	No mechanical da	No mechanical damage.		
CKP2520	Inductance chang	Inductance change: Within ±30%		
NM2012				
NM2520				
LK1005	No mechanical da	No mechanical damage		
LK1608		Inductance change: Within ±10% Q change: Within ±30%		
LK2125	inductance onling			
HK0402				
	No mechanical da	No mechanical damage		
		e: Within ±10% Q change: Within ±20%		
	\-\\			
		time (min.)		
1 Minimum operating temper		30±3		
I 				
2 Room tempera		2~3		
2 Room tempera 3 Maximum operating tempe	rature $+3/-0$	30±3		
2 Room tempera	rature $+3/-0$			
	BK0402 BK0603 BK1005 BKH0603 BKH1005 BK1608 BK2125 ARRAY BK2010 BK3216 BKP0603 BKP1005 BKP1608 BKP2125 MCF 0605 MCF 0806 MCF 1210 MCF 2010 CK1608 CK2125 CKS2125 CKP1608 CKP2012 CKP2016 CKP2520 NM2012 NM2520 LK1005 LK1608 LK2125 HK0402 HK0603 HK1005 HK1608 HK2125 HK0402 HK0603 HK1005 HK1608 HK2125 HKQ402 HKQ603W HKQ603C HKQ0603U AQ105 Conditions for 1 cycle Step temperature (S	BK0402		

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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14. Damp Heat (St					
	BK0402				
	BK0603				
	BK1005				
	BKH0603				
	BKH1005				
	BK1608		Appearance:No significant abnormality		
	BK2125	T	Impedance change: Within ±30%		
	ARRAY	BK2010			
		BK3216			
	BKP0603				
	BKP1005				
	BKP1608				
	BKP2125				
	MCF 0605				
	MCF 0806		Appearance: No significant abnormality		
	MCF 1210		Impedance change: Within ±20%		
	MCF 2010		N		
	CK1608		No mechanical damage.		
	CK2125		Inductance change: Within ±20% Q change: Within ±30%		
Specified Value	CKS2125		Inductance change: Within ±20%		
Specified value	CKP1608 CKP2012				
			No mechanical damage.		
	CKP2016		Inductance change: Within ±30%		
	CKP2520 NM2012		Inductance change: Within ±30%		
	NM2520				
	LK1005		No mechanical damage.		
	LK1608		Inductance change: Within ±10% Q change: Within ±30%		
	LICTUO		No mechanical damage.		
	LK2125		Inductance change: Within ±20% Q change: Within ±30%		
	HK0402				
	HK0603				
	HK1005				
	HK1608		No mechanical damage.		
	HK2125				
	HKQ0402		Inductance change: Within ±10% Q change: Within ±20%		
	HKQ0603W				
	HKQ0603C				
	HKQ0603S				
	HKQ0603U				
-	AQ105				
		Series, MCF Series:			
	Temperature	:40±2°C			
	Humidity Duration	:90 to 95%RH :500+24/-0 hrs			
	Recovery		er the standard condition after the removal from test chamber.(See Note 1)		
Test Methods and	recovery	. 2 to o mis of recovery unde	or and Standard Condition after the followal front test Chamber. (See Note 1)		
Remarks	LK, CK, CKS.	CKP、NM、HK、HKQ、AQ Seri	es:		
	Temperature	:40±2°C(LK, CK, CKS, C			
	1	:60±2°C(HK, HKQ, AQ S			
	Humidity	:90 to 95%RH			
	Duration	:500±12 hrs			
	Recovery	:2 to 3 hrs of recovery unde	er the standard condition after the removal from test chamber. (See Note 1)		

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15. Loading under [Damp Heat			
	BK0402			
	BK0603			
	BK1005		-	
	BKH0603			
	BKH1005			
	BK1608		-	
	BK2125		Appearance: No significant abnormality	
		BK2010	Impedance change: Within ±30%	
	I ARRAY —	BK3216	-	
		5N3210		
	BKP0603		4	
	BKP1005		4	
	BKP1608			
	BKP2125			
	CK1608		No mechanical damage.	
	CK2125		Inductance change: Within ±20% Q change: Within ±30%	
	CKS2125		No mechanical damage.	
	01(02120		Inductance change: Within ±20%	
	CKP1608			
	CKP2012			
	CKP2016		No mechanical damage.	
Specified Value	CKP2520		Inductance change: Within ±30%	
	NM2012			
	NM2520			
	LK1005		No mechanical damage.	
	LK1005		Inductance change: Within ±10% Q change: Within ±30%	
	LK1608		No mechanical damage.	
			Inductance change: $0.047 \sim 12.0 \mu$ H: Within $\pm 10\%$ $15.0 \sim 33.0 \mu$ H: Within $\pm 15\%$	
			Q change: Within ±30%	
	LK2125		No mechanical damage.	
			Inductance change: Within ±20% Q change: Within ±30%	
	HK0402		_	
	HK0603			
	HK1005			
	HK1608		No mechanical damage. Inductance change: Within ±10% Q change: Within ±20%	
	HK2125			
	HKQ0402			
	HKQ0603W		Inductance change. Within ±1070 Q change. Within ±2070	
	HKQ0603C			
	HKQ0603S			
	HKQ0603U			
	AQ105]	
	BK, BKP, BKH S	eries:		
	Temperature	:40±2°C		
	Humidity	:90 to 95%RH		
	Applied current	:Rated current		
	Duration	:500+24/-0 hrs		
To at Mother de and	Recovery	:2 to 3 hrs of recovery	under the standard condition after the removal from test chamber. (See Note 1)	
Test Methods and	LK, CK, CKS, CF	(P、NK、HK、HKQ、AQ Seri	es:	
Remarks	Temperature	:40±2°C(LK, CK, CH	KS, CKP, NM Series)	
		:60±2°C(HK, HKQ,	AQ Series)	
	Humidity	:90 to 95%RH		
	Applied current : Rated current			
	Duration :500±12 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 $35^{\circ}\text{C}\,$ 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 $20\pm2^{\circ}C$ 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.

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16. Loading at High	Temperature		
	BK0402		
	BK0603		
	BK1005		
	BKH0603		
	BKH1005		
	BK1608		A AL 1 100 A L 1 100
	BK2125		Appearance: No significant abnormality
	ADDAV	BK2010	Impedance change: Within ±30%
	ARRAY	BK3216	
	BKP0603		
	BKP1005		
	BKP1608		
	BKP2125		
	MCF 0605		
	MCF 0806		Appearance: No significant abnormality
	MCF 1210		Impedance change: Within ±20%
	MCF 2010		
	CK1608		No mechanical damage.
	CK2125		Inductance change: Within ±20% Q change: Within ±30%
	CKS2125		No mechanical damage. Inductance change: Within ±20%
	CKP1608		Inductance change. Within ±2070
Specified Value	CKP2012		
	CKP2016		No mechanical damage.
	CKP2520		Inductance change: Within ±30%
	NM2012		
	NM2520		
	LK1005		No mechanical damage. Inductance change: Within ±10% Q change: Within ±30%
			No mechanical damage.
	LK1608		Inductance change: $0.047 \sim 12.0 \mu$ H: Within $\pm 10\%$ $15.0 \sim 33.0 \mu$ H: Within $\pm 15\%$ Q change: Within $\pm 30\%$
			No mechanical damage.
	LK2125		Inductance change: Within ±20% Q change: Within ±30%
	HK0402		
	HK0603		
	HK1005		
	HK1608		
	HK2125		
	HKQ0402		No mechanical damage. Inductance change: Within ±10% Q change: Within ±20%
	HKQ0603W		Inductance change. Within 11070 Q change. Within 12070
	HKQ0603C		
	HKQ0603S		
	HKQ0603U		
	AQ105		
	, ,	Series, MCF Series:	
	Temperature	: 125±3°C (BK, BKH Series	
	A 1:1	: 85±3°C (BKP, MCF Series	s)
	Duration	nt :Rated current :500+24/-0 hrs	
	Recovery		er the standard condition after the removal from test chamber.
	recovery	(See Note 1)	of the Standard Condition area the followar from test offamber.
Test Methods and		, , , , , , , , , , , , , , , , , , , ,	
Remarks	LK, CK, CKS,	CKP, NM, HK, HKQ, AQ Seri	ies:
	Temperature	: 85±2°C(LK, CK, CKS, C	KP, NM Series)
		: 85±2°C (HK1608, 2125)	
	: $85\pm2^{\circ}$ C (HK1005, AQ105 operating temperature range $-55\sim+85^{\circ}$ C)		
: 125±2°C (HK0402, HKQ0402, HK0603, HK1005, HKQ0603S, HKQ0603U, HKQ0603W, HKQ0603C, AQ10			
			ture range−55∼+125°C)
		nt : Rated current	
	Duration	:500±12 hrs	ay the standard condition often the total (Con Note 1)
	Recovery	:2 to 3 nrs of recovery und	er the standard condition after the test.(See Note 1)

Note on standard condition: "standard condition" referred to herein is defined as follows:

5 to 35°C 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 $20\pm2^{\circ}C$ 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.

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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)

■PRECAUTIONS

1. Circuit Design

◆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.

Precautions

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 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)

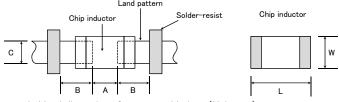
1. When inductors are mounted on a PCB, the size of land patterns and the amount of solder used (size of fillet) can directly affect inductor performance.

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)

Ту	ре	1608	2012	2125	2016	2520	3216
Size	L	1.6	2.0	2.0	2.0	2.5	3.2
Size	W	0.8	1.25	1.25	1.6	2.0	1.6
A	4	0.8~1.0	1.0~1.4	1.0~1.4	1.0~1.4	1.0~1.4	1.8~2.5
E	3	0.5~0.8	0.8~1.5	0.8~1.5	0.8~1.5	0.6~1.0	0.8~1.7
()	0.6~0.8	0.9~1.2	0.9~1.2	1.3~1.6	1.6~2.0	1.2~1.6

Technical considerations

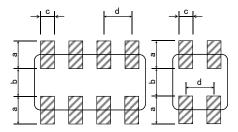
Recommended land dimensions for reflow-soldering (Unit:mm)

Ту	ре	0402	0603	1005	105	1608	2012
Size	L	0.4	0.6	1.0	1.0	1.6	2.0
Size	W	0.2	0.3	0.5	0.6	0.8	1.25
-	4	0.15~0.25	0.20~0.30	0.45~0.55	0.50~0.55	0.8~1.0	0.8~1.2
E	3	0.10~0.20	0.20~0.30	0.40~0.50	0.30~0.40	0.6~0.8	0.8~1.2
()	0.15~0.30	0.25~0.40	0.45~0.55	0.60~0.70	0.6~0.8	0.9~1.6

Type		2125	2016	2520	3216
Size	L	2.0	2.0	2.5	3.2
Size	W	1.25	1.6	2.0	1.6
A	١	0.8~1.2	0.8~1.2	1.0~1.4	1.8~2.5
Е	3	0.8~1.2	0.8~1.2	0.6~1.0	0.6~1.5
()	0.9~1.6	1.2~2.0	1.8~2.2	1.2~2.0

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



Type		3216	2010	1210	0806	0605
Size	┙	3.2	2.0	1.25	0.85	0.65
Size	W	1.6	1.0	1.0	0.65	0.50
а	1	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
С	;	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

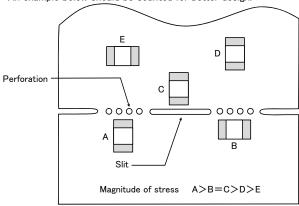
7	Examples of good and bad solde		
	Item	Not recommended	Recommended
	Mixed mounting of SMD and leaded components	Lead wire of component	Solder-resist
	Component placement close to the chassis	Chassis Solder (for grounding) Electrode pattern	Solder-resist
	Hand-soldering of leaded components near mounted 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 recommend		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

- ◆Adjustment of mounting machine
 - 1. Excessive impact load should not be imposed on the inductors when mounting onto the PC boards.
 - 2. The maintenance and inspection of the mounter should be conducted periodically.

Precautions

◆ Selection of Adhesives

1. 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.

◆Adjustment of mounting machine

- 1. 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.
 - (2) The pick-up pressure should be adjusted between 1 and 3N static loads.
 - (3) 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:

Item	Improper method	Proper method	
Single-sided mounting	chipping or cracking	supporting pins or back-up pins	
Double-sided mounting	chipping or cracking	supporting pins or back-up pins	

Technical considerations

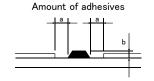
2. As the alignment pin wears out, adjustment of the nozzle height can cause chipping or cracking of the inductors because of mechanical impact on the inductors. To avoid this, the monitoring of the width between the alignment pin in the stopped position, and maintenance, inspection and replacement of the pin should be conducted periodically.

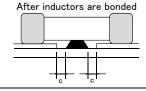
◆Selection of Adhesives

- 1. 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.
 - (1) Required adhesive characteristics
 - a. The adhesive should be strong enough to hold parts on the board during the mounting & solder process.
 - b. The adhesive should have sufficient strength at high temperatures.
 - c. The adhesive should have good coating and thickness consistency.
 - d. The adhesive should be used during its prescribed shelf life.
 - e. The adhesive should harden rapidly.
 - f. The adhesive must not be contaminated.
 - g. The adhesive should have excellent insulation characteristics.
 - h. The adhesive should not be toxic and have no emission of toxic gasses.
 - (2) 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]

Figure	0805 case sizes as examples	
а	0.3mm min	
b	100∼120 μ m	
С	Area with no adhesive	





4. Soldering

Precautions

◆Selection of Flux

- 1. Since flux may have a significant effect on the performance of inductors, it is necessary to verify the following conditions prior to use;
 - (1) 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.
 - (2) When soldering inductors on the board, the amount of flux applied should be controlled at the optimum level.
 - (3) When using water-soluble flux, special care should be taken to properly clean the boards.

◆Soldering

1. 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.

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◆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

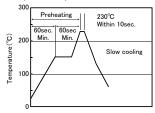
Heating: Chip inductor components should be preheated to within $100 \text{ to } 130^{\circ}\text{C}$ of the soldering. Cooling: The temperature difference between the components and cleaning process should not be greater than 100°C .

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.

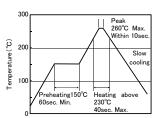
Recommended conditions for soldering

[Reflow soldering]

Temperature profile



Pb free soldering



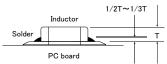
**Ceramic chip components should be preheated to within 100 to 130°C of the soldering.

*Assured to be reflow soldering for 2 times.

Caution

Technical considerations

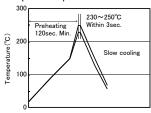
1. The ideal condition is to have solder mass (fillet) controlled to 1/2 to 1/3 of the thickness of the inductor, as shown below:

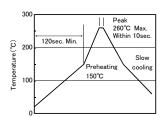


2. Because excessive dwell times can detrimentally affect solderability, soldering duration should be kept as close to recommended times as possible.

[Wave soldering]

Temperature profile





 $\rm \& Ceramic$ chip components should be preheated to within 100 to 130°C of the soldering.

*Assured to be wave soldering for 1 time.

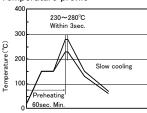
Except for reflow soldering type.

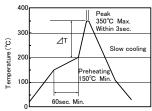
Caution

- 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]

Temperature profile





($\Arrowvart \Delta$ T≤190°C(3216Type max), Δ T≤130°C(3225 Type min)

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

%The soldering iron should not directly touch the components.

imesAssured to be soldering iron for 1 time

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

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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.

Cleaning 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

◆Cleaning conditions

characteristics.

- 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;

Ultrasonic output Below 20W/2
Ultrasonic frequency Below 40kHz
Ultrasonic washing period 5 min. or less

6. Post cleaning processes

◆Application of resin coatings, moldings, etc. to the PCB and components.

Precautions

Technical

considerations

- 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

- ◆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.
 - $\ensuremath{\mathbf{2}}.$ Keep the inductors away from all magnets and magnetic objects.
- Precautions

 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

◆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

Ambient temperature Below 40°C

Humidity Below 70% RH

The ambient temperature must be kept below 30°C. Even under ideal storage conditions inductor electrode solderability decreases as time passes, so inductors should be used within 6 months from the time of delivery.

*The packaging material should be kept where no chlorine or sulfur exists in the air.

◆Storage

Technical considerations

Precautions

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.

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