## Notice for TAIYO YUDEN products

Please read this notice before using the TAIYO YUDEN products.

#### !\ REMINDERS

Product information in this catalog is as of October 2016. 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 use of our products.

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 specification.

- Please contact TAIYO YUDEN for further details of product specifications as the individual specification is 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), general medical equipment, industrial equipment, and automotive interior applications, etc. 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., specially controlled medical equipment, transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment).

Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment, nuclear control equipment, undersea equipment, military 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.

Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the products listed in this catalog for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.

- Please note that TAIYO YUDEN 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 use of our products. TAIYO YUDEN grants no license for such rights.
- Please note that unless otherwise agreed in writing, the scope of warranty for our products is limited to the delivered our products themselves and TAIYO YUDEN shall not be in any way responsible for any damages resulting from a fault or defect in our products.
- 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.
- Caution for Export

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

## WIRE-WOUND CHIP POWER INDUCTORS(CB SERIES)





HEFLU

■PART NUMBER

\*Operating Temp.: -40~105°C (Including self-generated heat)

△=Blank space



①Series name	
Code	Series name

CB	Wound chip power inductor	
(2) Characteristics		

E onaractoriotico			
Code	Characteristics		
ΔΔ	Standard		
ΔC	High current		

③Dimensions (L×W)				
	Code	Type (inch)	Dimensions (L×W) [mm]	
	2012	2012 (0805)	2.0 × 1.25	
	2016	2016 (0806)	2.0 × 1.6	
	2518	2518 (1007)	2.5 × 1.8	
	3225	3225 (1210)	3.2 × 2.5	

4)Pacl	kaging	

Code	Packaging
Т	Taping

(b)Nominal	inductance

Code (example)	Nominal inductance[ μ H]
1R0	1.0
100	10
101	100

※R=Decimal point

#### 6 Inductance tolerance

Code	Inductance tolerance
K	±10%
М	±20%

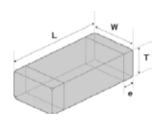
#### 7)Special code

Code	Special code
Δ	Standard
R	Low Rdc type

#### 8 Internal code

Code	Internal code	
V	Inductor for Industrial and Automotive	

#### ■STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY



Recommended Land Patterns

Surface Mounting

- •Mounting and soldering conditions should be checked beforehand.
- Applicable soldering process to these products is reflow soldering only.



Туре	Α	В	C
2012	0.60	1.0	1.45
2016	0.60	1.0	1.8
2518	0.60	1.5	2.0
3225	0.85	1.7	2.7
		•	Unit:mm

Tyma	Type L W T			Standard qu	antity [pcs]	
Type	L	VV	•	е	Paper tape	Embossed tape
CB 2012	2.0±0.2	1.25±0.2	1.25±0.2	0.5±0.2	_	3000
CB C2012	$(0.079\pm0.008)$	$(0.049\pm0.008)$	$(0.049\pm0.008)$	$(0.020\pm0.008)$	_	3000
CB 2016	2.0±0.2	1.6±0.2	1.6±0.2	0.5±0.2	_	2000
CB C2016	$(0.079 \pm 0.008)$	$(0.063 \pm 0.008)$	$(0.063 \pm 0.008)$	$(0.020\pm0.008)$	_	2000
CB 2518	2.5±0.2	1.8±0.2	1.8±0.2	0.5±0.2	_	2000
CB C2518	$(0.098 \pm 0.008)$	$(0.071 \pm 0.008)$	$(0.071 \pm 0.008)$	$(0.020\pm0.008)$	_	2000
CB C3225	3.2±0.2	2.5±0.2	2.5±0.2	0.6±0.3	_	1000
OD 03223	$(0.126\pm0.008)$	(0.098±0.008)	$(0.098 \pm 0.008)$	$(0.024\pm0.012)$	_	1000

 $\mathsf{Unit}\!:\!\mathsf{mm}(\mathsf{inch})$ 

<sup>▶</sup> 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 website (http://www.ty-top.com/) .

· All the Wire-wound Chip Power Inductors of the catalog lineup are RoHS compliant.

- The exchange of individual specifications is necessary depending on the application and circuit condition. Please contact Taiyo Yuden sales channels.
- \*2: Industrial products and Medical products

Please consult with TAIYO YUDEN's official sales channel for the details of the product specification , etc.,

and please review and approve TAIYO YUDEN's product specification before ordering.

Please be sure to contact us for further information before using the components for Automotive equipment.

#### 2012(0805)type

	M 1 11 1 1		Self-resonant	DO D	Rated curren	t ※)[mA]		
Part number	Nominal inductance [ μ H]	Inductance tolerance	frequency [MHz] (min.)	DC Resistance [Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]	Note
CB 2012T1R0M V	1.0	±20%	100	0.15	500	700	7.96	*2
CB 2012T2R2M V	2.2	±20%	80	0.23	410	620	7.96	*2
CB 2012T3R3M V	3.3	±20%	55	0.30	330	550	7.96	*2
CB 2012T4R7M V	4.7	±20%	45	0.40	300	430	7.96	*2
CB 2012T6R8M V	6.8	±20%	38	0.47	250	350	7.96	*2
CB 2012T100[] V	10	±10%, ±20%	32	0.70	190	300	2.52	*2
CB 2012T100[RV	10	±10%, ±20%	32	0.50	200	300	2.52	*2
CB 2012T150[] V	15	±10%, ±20%	28	1.3	170	240	2.52	*2
CB 2012T220 V	22	±10%, ±20%	16	1.7	135	220	2.52	*2
CB 2012T470[] V	47	±10%, ±20%	11	3.7	90	140	2.52	*2
CB 2012T680[] V	68	±10%, ±20%	10	6.0	70	100	2.52	*2
CB 2012T101 V	100	±10%, ±20%	8	7.0	60	100	0.796	*2

	Nominal inductance		Self-resonant	DC Resistance	Rated curren	t ※)[mA]	Measuring	
Part number	[ $\mu$ H]	Inductance tolerance	frequency [MHz] (min.)	$[\Omega](\pm 30\%)$	Saturation current Idc1	Temperature rise current Idc2	frequency[MHz]	Note
CB C2012T1R0M V	1.0	±20%	100	0.19	700	640	7.96	*2
CB C2012T2R2M V	2.2	±20%	70	0.33	530	485	7.96	*2
CB C2012T4R7M V	4.7	±20%	45	0.50	360	395	7.96	*2
CB C2012T100 U	10	±10%, ±20%	40	1.2	240	255	2.52	*2
CB C2012T220 U	22	±10%, ±20%	16	3.7	170	145	2.52	*2
CB C2012T470[] V	47	±10%, ±20%	11	5.8	120	115	2.52	*2

#### **2016**(0806)type

	M 1 11 1 1		Self-resonant	DO D	Rated curren	t ※)[mA]		
Part number	Nominal inductance [ μ H]	Inductance tolerance	frequency [MHz] (min.)	DC Resistance [Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]	Note
CB 2016T1R0M V	1.0	±20%	100	0.09	600	720	7.96	*2
CB 2016T1R5M V	1.5	±20%	80	0.11	550	650	7.96	*2
CB 2016T2R2M V	2.2	±20%	70	0.13	510	600	7.96	*2
CB 2016T3R3M V	3.3	±20%	55	0.20	400	440	7.96	*2
CB 2016T4R7M V	4.7	±20%	45	0.25	340	410	7.96	*2
CB 2016T6R8M V	6.8	±20%	38	0.35	300	330	7.96	*2
CB 2016T100[] V	10	±10%, ±20%	32	0.50	250	270	2.52	*2
CB 2016T150[] V	15	±10%, ±20%	28	0.70	210	220	2.52	*2
CB 2016T220[] V	22	±10%, ±20%	16	1.0	165	190	2.52	*2
CB 2016T330[] V	33	±10%, ±20%	14	1.7	130	140	2.52	*2
CB 2016T470[] V	47	±10%, ±20%	11	2.4	110	120	2.52	*2
CB 2016T680[] V	68	±10%, ±20%	10	3.0	90	110	2.52	*2
CB 2016T101 V	100	±10%, ±20%	8	4.5	70	90	0.796	*2

	Manada al la desakana a		Self-resonant	DC Resistance	Rated curren	t ※)[mA]	Managada	
Part number	Nominal inductance [ μ H]	Inductance tolerance	frequency [MHz] (min.)	$[\Omega](\pm 30\%)$	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]	Note
CB C2016T1R0M V	1.0	±20%	100	0.10	1,100	885	7.96	*2
CB C2016T1R5M V	1.5	±20%	80	0.15	1,000	775	7.96	*2
CB C2016T2R2M V	2.2	±20%	70	0.20	750	625	7.96	*2
CB C2016T3R3M V	3.3	±20%	55	0.27	600	535	7.96	*2
CB C2016T4R7M V	4.7	±20%	45	0.37	550	460	7.96	*2
CB C2016T6R8M V	6.8	±20%	38	0.59	450	360	7.96	*2
CB C2016T100 V	10	±10%, ±20%	32	0.82	380	305	2.52	*2
CB C2016T150[] V	15	±10%, ±20%	28	1.2	300	255	2.52	*2
CB C2016T220[] V	22	±10%, ±20%	16	1.8	250	205	2.52	*2
CB C2016T330□ V	33	±10%, ±20%	14	2.8	220	165	2.52	*2
CB C2016T470 V	47	±10%, ±20%	11	4.3	150	130	2.52	*2
CB C2016T680□ V	68	±10%, ±20%	10	7.0	130	105	2.52	*2
CB C2016T101[] V	100	±10%, ±20%	8	8.0	110	95	0.796	*2

<sup>• []</sup> Please specify the Inductance tolerance code (Kor M)

<sup>%</sup>)The saturation current value(Idc1) is the DC current value having inductance decrease down to 30%.( at 20°C) %)The temperature rise current value(Idc2) is the DC current value having temperature increase by 20°C.( at 20°C)

<sup>\*</sup>X) The rated current value is following either Idc1 or Idc2, which is the lower one.

<sup>▶</sup> 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 website (http://www.ty-top.com/).

#### ■PART NUMBER 2518(1007)type

	Nominal inductance		Self-resonant	DC Resistance	Rated curren	t ※)[mA]	Manageria	
Part number	[ $\mu$ H]	Inductance tolerance	frequency [MHz] (min.)	[Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]	Note
CB 2518T1R0M V	1.0	±20%	100	0.06	1,200	1,250	7.96	*2
CB 2518T1R5M V	1.5	±20%	80	0.07	650	1,100	7.96	*2
CB 2518T2R2M V	2.2	±20%	68	0.09	510	1,000	7.96	*2
CB 2518T3R3M V	3.3	±20%	54	0.11	440	900	7.96	*2
CB 2518T4R7MRV	4.7	±20%	46	0.10	310	820	7.96	*2
CB 2518T4R7M V	4.7	±20%	46	0.13	340	820	7.96	*2
CB 2518T6R8M V	6.8	±20%	38	0.15	270	750	7.96	*2
CB 2518T100[] V	10	±10%, ±20%	30	0.25	250	600	2.52	*2
CB 2518T150[] V	15	±10%, ±20%	23	0.32	180	500	2.52	*2
CB 2518T220[] V	22	±10%, ±20%	19	0.50	165	390	2.52	*2
CB 2518T330∏ V	33	±10%, ±20%	15	0.70	130	320	2.52	*2
CB 2518T470[] V	47	±10%, ±20%	12	0.95	110	270	2.52	*2
CB 2518T680∏ V	68	±10%, ±20%	9.5	1.5	70	210	2.52	*2
CB 2518T101 V	100	±10%, ±20%	9.0	2.1	60	190	0.796	*2
CB 2518T151 V	150	±10%, ±20%	7.0	3.2	55	140	0.796	*2
CB 2518T221[] V	220	±10%, ±20%	5.5	4.5	50	110	0.796	*2
CB 2518T331∏ V	330	±10%, ±20%	4.5	7.0	40	90	0.796	*2
CB 2518T471[] V	470	±10%, ±20%	3.5	10	35	70	0.796	*2
CB 2518T681[] V	680	±10%, ±20%	3.0	17	30	50	0.796	*2
CB 2518T102[] V	1000	±10%, ±20%	2.4	24	25	45	0.252	*2

			Self-resonant	202	Rated curren	t ※)[mA]		
Part number	Nominal inductance [ μ H]	Inductance tolerance	frequency [MHz] (min.)	DC Resistance [Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]	Note
CB C2518T1R0M V	1.0	±20%	100	0.08	1,000	775	7.96	*2
CB C2518T1R5M V	1.5	±20%	80	0.11	950	730	7.96	*2
CB C2518T2R2M V	2.2	±20%	68	0.13	890	630	7.96	*2
CB C2518T3R3M V	3.3	±20%	54	0.16	730	560	7.96	*2
CB C2518T4R7M V	4.7	±20%	41	0.20	680	510	7.96	*2
CB C2518T6R8M V	6.8	±20%	38	0.30	550	420	7.96	*2
CB C2518T100[] V	10	±10%, ±20%	30	0.36	480	375	2.52	*2
CB C2518T150 U	15	±10%, ±20%	23	0.65	350	285	2.52	*2
CB C2518T220 U	22	±10%, ±20%	19	0.77	320	250	2.52	*2
CB C2518T330 U	33	±10%, ±20%	15	1.5	270	185	2.52	*2
CB C2518T470 U	47	±10%, ±20%	12	1.9	240	165	2.52	*2
CB C2518T680 U	68	±10%, ±20%	9.5	2.8	200	140	2.52	*2
CB C2518T101 U	100	±10%, ±20%	9.0	3.7	160	125	0.796	*2
CB C2518T151  V	150	±10%, ±20%	7.0	6.1	140	95	0.796	*2
CB C2518T221 V	220	±10%, ±20%	5.5	8.4	115	80	0.796	*2
CB C2518T331[] V	330	±10%, ±20%	4.5	12.3	100	65	0.796	*2
CB C2518T471[] V	470	±10%, ±20%	3.5	22	80	50	0.796	*2
CB C2518T681[] V	680	±10%, ±20%	3.0	28	65	45	0.796	*2

#### 3225 (1210) type

	N		Self-resonant	DO D	Rated curren	t ※)[mA]		
Part number	Nominal inductance [ μ H]	Inductance tolerance	frequency [MHz] (min.)	DC Resistance [Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[MHz]	Note
CB C3225T1R0MRV	1.0	±20%	250	0.055	2,000	1,100	0.1	*2
CB C3225T1R5MRV	1.5	±20%	220	0.060	2,000	1,000	0.1	*2
CB C3225T2R2MRV	2.2	±20%	190	0.080	2,000	930	0.1	*2
CB C3225T3R3MRV	3.3	±20%	160	0.095	2,000	850	0.1	*2
CB C3225T4R7MRV	4.7	±20%	70	0.100	1,250	830	0.1	*2
CB C3225T6R8MRV	6.8	±20%	50	0.120	950	760	0.1	*2
CB C3225T100[RV	10	±10%, ±20%	23	0.133	900	720	0.1	*2
CB C3225T150[RV	15	±10%, ±20%	20	0.195	730	590	0.1	*2
CB C3225T220□RV	22	±10%, ±20%	17	0.27	620	500	0.1	*2
CB C3225T330□RV	33	±10%, ±20%	13	0.41	500	400	0.1	*2
CB C3225T470□RV	47	±10%, ±20%	10	0.67	390	320	0.1	*2
CB C3225T680∏RV	68	±10%, ±20%	8.0	1.0	320	260	0.1	*2
CB C3225T101□RV	100	±10%, ±20%	6.0	1.4	270	220	0.1	*2
CB C3225T221 RV	220	±10%, ±20%	3.0	2.5	190	170	0.1	*2
CB C3225T821□RV	820	±10%, ±20%	1.8	12	110	80	0.1	*2
CB C3225T102[]RV	1000	±10%, ±20%	1.6	13	100	75	0.1	*2

<sup>• ☐</sup> Please specify the Inductance tolerance code (Kor M)

 $<sup>\</sup>mbox{\%}\mbox{)}$  The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%.( at 20°C)

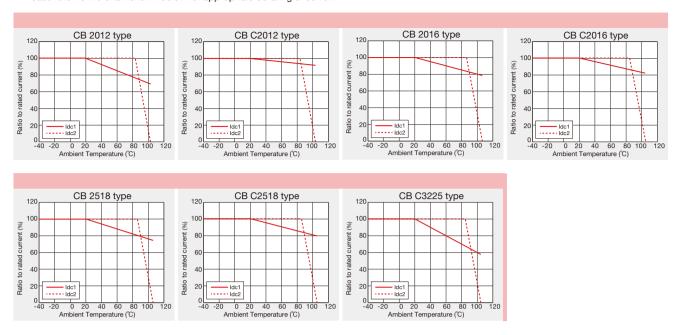
<sup>(</sup>a) The saturation current value (tdc1) is the DC current value having inductance decrease down to 30% (at 20°C).
(at 20°C) with a saturation current value (tdc2) is the DC current value having temperature increase by 20°C. (at 20°C).
(at 20°C) with a saturation current value is following either Idc1 or Idc2, which is the lower one.

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#### Derating of Rated Current

#### CB series

Derating of current is necessary for CB series depending on ambient temperature. Please refer to the chart shown below for appropriate derating of current.



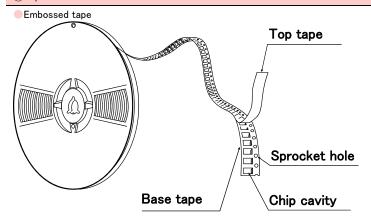
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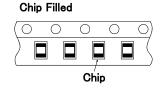
## WIRE-WOUND CHIP INDUCTORS (LB SERIES), WIRE-WOUND CHIP POWER INDUCTORS (CB SERIES), WIRE-WOUND CHIP INDUCTORS FOR SIGNAL LINES (LB SERIES M TYPE)

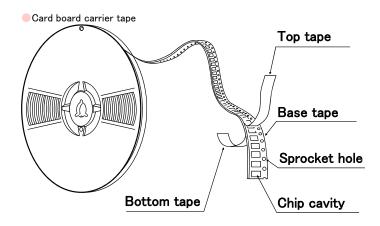
#### PACKAGING

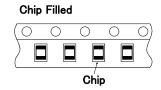
#### 1 Minimum Quantity Standard Quantity [pcs] Type Paper Tape Embossed Tape LB C3225 1000 CB C3225 LB 3218 2000 LB R2518 LB C2518 2000 LB 2518 CB 2518 CB C2518 LBM2016 LB C2016 LB 2016 2000 CB 2016 CB C2016 LB 2012 LB C2012 LB R2012 3000 CB 2012 CB C2012 CB L2012 4000 LB 1608 4000 LBMF1608 3000 CBMF1608

#### ②Tape material



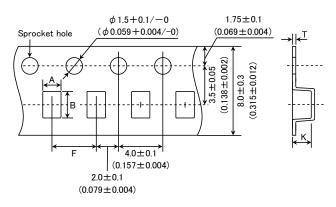






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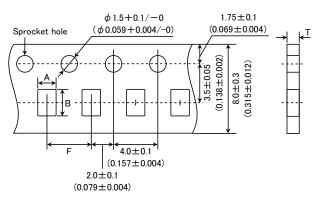
#### Embossed Tape (0.315 inches wide)



т.	Chip	cavity	Insertion pitch	Tape th	nickness
Type	Α	В	F	Т	K
LBM2016	1.75±0.1	2.1±0.1	4.0±0.1	0.3±0.05	1.9max.
	(0.069±0.004)	(0.083±0.004)	(0.157±0.004)	(0.012±0.002)	(0.075max.)
LB C3225	2.8±0.1	3.5±0.1	4.0±0.1	0.3±0.05	4.0max.
CB C3225	(0.110±0.004)	(0.138±0.004)	(0.157±0.004)	(0.012±0.002)	(0.157max.)
LB 3218	2.1±0.1	3.5±0.1	4.0±0.1	0.3±0.05	2.2max.
	(0.083±0.004)	(0.138±0.004)	(0.157±0.004)	(0.012±0.002)	(0.087max.)
LB 2518 CB 2518 LB C2518 CB C2518 LB R2518	2.15±0.1	2.7±0.1	4.0±0.1	0.3±0.05	2.2max.
	(0.085±0.004)	(0.106±0.004)	(0.157±0.004)	(0.012±0.002)	(0.087max.)
LB 2016 CB 2016 LB C2016 CB C2016	1.75±0.1 (0.069±0.004)	2.1±0.1 (0.083±0.004)	4.0±0.1 (0.157±0.004)	0.3±0.05 (0.012±0.002)	1.9max. (0.075max.)
LB 2012 CB 2012 LB C2012 CB C2012 LB R2012	1.45±0.1 (0.057±0.004)	2.25±0.1 (0.089±0.004)	4.0±0.1 (0.157±0.004)	0.25±0.05 (0.010±0.002)	1.45max. (0.057max.)
LBMF1608	1.1±0.1	1.9±0.1	4.0±0.1	0.25±0.05	1.2max.
CBMF1608	(0.043±0.004)	(0.075±0.004)	(0.157±0.004)	(0.010±0.002)	(0.047max.)

Unit:mm(inch)

#### Card board carrier tape (0.315 inches wide)

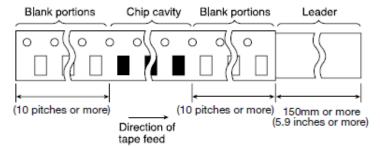


_	Chip	cavity	Insertion pitch	Tape thickness
Туре	Α	В	F	Т
OD 1 0010	1.55±0.1	2.3±0.1	4.0±0.1	1.1max.
CB L2012	$(0.061 \pm 0.004)$	$(0.091 \pm 0.004)$	$(0.157 \pm 0.004)$	(0.043max.)
LD 1000	1.0±0.1	1.8±0.1	4.0±0.1	1.1max.
LB 1608	$(0.039 \pm 0.004)$	$(0.071 \pm 0.004)$	$(0.157 \pm 0.004)$	(0.043max.)

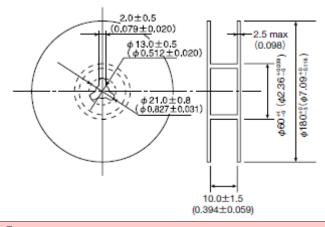
Unit:mm(inch)

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#### 4 Leader and Blank Portion



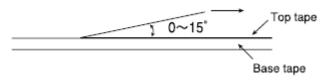
#### ⑤Reel Size



### **©**Top Tape Strength

The top tape requires a peel-off force 0.2 to 0.7N in the direction of the arrow as illustrated below.

#### Pull direction



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# WIRE-WOUND CHIP INDUCTORS (LB SERIES), WIRE-WOUND CHIP POWER INDUCTORS (CB SERIES), WIRE-WOUND CHIP INDUCTORS FOR SIGNAL LINES (LB SERIES M TYPE)

#### ■ RELIABILITY DATA

ture Range						
LB, LBC, LBR Series						
CB, CBC Series	-40∼+105°C(Including self-generated heat)					
LBM Series						
Including self-generated heat						
LB, LBC, LBR Series						
CB, CBC Series	_40~+85°C					
LBM Series						
Please refer the term of "7. storage conditions" in precaution	ns.					
	T					
CB, CBC Series	Within the specified tolerance					
LBM Series						
LB, LBC, LBR Series						
CB, CBC Series	Within the specified tolerance					
LBM Series						
LB·LBC·LBR·CB·CBC·LBM Series						
Measuring equipment :LCR Mater(HP4285A or its e	quivalent)					
LB, LBC, LBR Series						
CB, CBC Series						
LBM Series	Within the specified tolerance					
LBM Series						
Measuring equipment : LCR Mater(HP4285A or its eq	uivalent)					
LB, LBC, LBR Series						
CB, CBC Series	Within the specified tolerance					
LBM Series						
Measuring equipment : DC Ohmmeter (HIOKI 3227 or its equ	ivalent)					
Millanov						
· ·						
	Within the appaired tolerance					
	Within the specified tolerance					
Measuring equipment : Impedance analyzer (HP4291A or its or	 equivalent)					
	LB, LBC, LBR Series  CB, CBC Series  LBM Series  Including self-generated heat  ture Range (after soldering)  LB, LBC, LBR Series  CB, CBC Series  LBM Series  LB, CB Series: Please refer the term of "7. storage conditions" in precaution  LB, LBC, LBR Series  CB, CBC Series  LBM Series  LB, LBC, LBR Series  CB, CBC Series  LBM Series  LB, LBC, LBR Series  CB, CBC Series  LBM Series  LB-LBC-LBR-CB-CBC-LBM Series  Measuring equipment : LCR Mater (HP4285A or its equipment): LCR Mater (HIOKI 3227 or its equipment): LCR Mater (					

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8.Temperature Char	racteristic				
	LBM2016				Inductance change : Within±10%
	LB2012	LBR2012	CB2012	LB2016	
	CB2016	LB2518	LBR2518	CB2518	Inductance change : Within ± 20%
Specified Value	LBC3225	CBC3225			
	LBC2016	CBC2016	LBC2518	CBC2518	Industrial - N/11 in ± 250/
	LB3218				Inductance change : Within±25%
	LBC2012	CBC2012			Inductance change : Within±35%
	Change of	maximum inductar	ice deviation in	step 1-5	
	C)	Temp	erature (°C)		
	Step	LB,	CB Serie		
Test Methods and	1		20		
Remarks	2		-40		
	3	20(Referer	nce temperature	e)	
	4	+85 (Maximum o	perating tempe	rature)	
	5		20	•	

9.Rasistance to Fle	xure of Substrate	
Specified Value	LB, LBC, LBR Series	No damage.
	CB, CBC Series	
	LBM Series	
Test Methods and Remarks	Warp : 2mm(LB·LBC·LBR·CB·CBC·LBM Series)  Test substrate : Board according to JIS C0051  Thickness : 1.0mm  Pressing jig  10 20  R340  Board  R5 45±2mm  45±2mm  45±2mm	

10.Body Strength		
Specified Value	LB, LBC, LBR Series	No damage.
	CB, CBC Series	
	LBM Series	
Test Methods and Remarks	LB·LBC·LBR·CB·CBC·LBM Applied force : 10N Duration : 10sec.	

11.Adhesion of term	ninal electrode			
	LB, LBC, LBR Series			No abnormality.
Specified Value	CB, CBC Series		No abnormality.	
	LBM Series			
Test Methods and	LB·LBC·LBR·CB·CBC·CBL·LBM  t Methods and			
Remarks	Applied force Duration	5 sec.		
remarks	Test substrate	: Printed board		

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12.Resistance to vil	bration		
	LB, LBC, LBR Series		Inductance change : Within±20%
Specified Value	CB, CBC Series		No significant abnormality in appearance.
	LBM Series		Inductance change : Within±20%  No significant abnormality in appearance.
	LB.LBR.LBC.CB.CB	C•LBM : According to JIS C5102 cla	use 8.2.
Test Methods and Remarks	Vibration type Directions Frequency range Amplitude Mounting method Recovery	: A : 2 hrs each in X, Y and Z direction : 10 to 55 to 10 Hz (1min.) : 1.5mm : Soldering onto printed board : At least 2 hrs of recovery under thrs.	ns. Total:6 hrs the standard condition after the test, followed by the measurement within 48
13.Drop test	T		
	LB, LBC, LBR Series		
Specified Value	CB, CBC Series		
	LBM Series		
14.Solderability			
· · · · · · · · · · · · · · · · · · ·	LB. LBC. LBR Series		
Specified Value	CB. CBC Series		At least 90% of surface of terminal electrode is covered by new
-,	LBM Series		
	LB·LBC·LBR·CB·CB	C.CRI.IRM	
Test Methods and	Solder temperature	: 245±5°C	
Remarks	Duration	: 5±0.5sec	
	Flux	: Methanol solution with 25% of c	olophony
15.Resistance to so	oldering		
	LB, LBC, LBR Series		Inductance change : Within±20%
Specified Value	CB, CBC Series		
	LBM Series		Inductance change : Within±20%
Test Methods and Remarks	LB·LBC·LBR·CB·CB 3 times of reflow over	C·CBL·LBM: n at 230°C MIN for 40sec. with peak	temperature at 260 °C for 5sec.
16.Resisitance to s	olvent		
10.1103/3/100/100/100/3/	LB, LBC, LBR Series		
Specified Value	, ,		
specified value	CB, CBC Series  LBM Series		_
		. D	
Test Methods and Remarks	Solvent temperature Type of solvent	: Room temperature : Isopropyl alcohol	
	Cleaning conditions	: 90s. Immersion and cleaning.	
17.TI III			
17.Thermal shock	ID IDO IDD C		
	LB, LBC, LBR Series		Inductance change : Within±20%
Specified Value	CB, CBC Series		No significant abnormality in appearance.
	LBM Series		
Tarak Makharaha awal	LB·LBC·LBR·CB·CBC·CBL·LBM: -40~+85°C, maintain times 30min. ,100 cycle		
Test Methods and Remarks			standard condition after the test, followed by the measurement within 48 hrs.

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Specified Value   BL BLG LBR Series				
Specified Value   CBC Series   Inductance charge: Within±20%   No significant abnormality in appearance.   Inductance charge: Within±20%   No significant abnormality in appearance.   Inductance charge: Verbin±20%   No si	18.Damp heat life to	est		
Dec US Services   Dec US Services   No significant abnormality in appearance.	Specified Value	LB, LBC, LBR Series		
Test Methods and Remarks  Specified Value  19. Loading under damp heat life test  20. Life test  21. Loading at high temperature  18. Life CL BR Series  21. Loading at high temperature life test  22. Loading at high temperature life test  22. Loading at high temperature life test  23. Loading at high temperature life test  24. Loading at high temperature life test  25. Co. Co. Series  Life Machads and Remarks  26. CB. CB. Series  Life Machads and Remarks  26. CB. CB. Series  Life Machads and Remarks  27. Loading at high temperature life test  28. Life CL BR Series  Duration  29. Loading at high temperature life test  20. Life Life CL BR Series  Life Machads and Remarks  20. CB. CB. Series  Life Machads and Remarks  20. CB. CB. Series  Life Machads and Remarks  20. CB. CB. Series  Life Life CL BR Series  CB. CB. CB. Series  Life Life CL BR Series  Applied current  20. Life CL BR Series  Applied current  21. Life CL BR Series  Applied current  22. Life Machads and Remarks  Applied current  23. Life CL BR Series  Applied current  2		CB, CBC Series	_	
Test Methods and Numerity   Septimize		LBM Series	No Significant abnormality in appearance.	
Parameter   Duration   Color   Face   Color   Face   Fac		Temperature : 60±2°C		
Recovery   At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.    19	Test Methods and	Humidity : 90∼95%RH		
Specified Value   LB. LBC LBR Series   Inductance change: Within ± 20%	Remarks			
LB, LBC, LBR Series		Recovery : At least 2 hrs of recovery under the s	standard condition after the test, followed by the measurement within 48 hrs.	
LB, LBC, LBR Series				
CB. CBC Sarias   LBM Series   Section   LBM Series   Section   S	19.Loading under da			
LBM Series		LB, LBC, LBR Series	Inductance change: Within + 20%	
Test Methods and Remarks  Tomprature : 60±2°C	Specified Value	CB, CBC Series		
Test Methods and Remarks  Applied current Applied current Recovery  At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  20 High temperature life test  BL BC LBR Series  CB. CBC Series  LBM Series  Inductance change: Within±20% No significant abnormality in appearance.  Test Methods and Remarks  Properature life test  BLBC LBR Series  LBL BC LBR Series  Inductance change: Within±20% No significant abnormality in appearance.  11 LBL BC LBR Series  Temperature life test  22 Low temperature life test  LBL BC CBC Series  LBM Series  LBL BC CBC Series  Second Series  LBL BC CBC Series  LBL BC CBC Series  LBL BC CBC Series  LBL BC CBC Series  Second Series  LBL BC CBC Series  LBL BC CBC Series  Second Series  LBL BC CBC Series  Second Series  LBL BC CBC Series  Second Series  LBL BC CBC Series  LBL BC CBC Series  LBL BC CBC Series  Second Series		LBM Series	, II	
Test Methods and Remarks		•		
Applied current : Rated current Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  20.High temperature life test    I.B. LBC, LBR Series	Test Methods and			
Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  20.High temperature life test  LB. LBC. LBR Series	Remarks			
20.High temperature   life test			standard condition after the test, followed by the measurement within 48 hrs.	
LB, LBC, LBR Series		· · · · · · · · · · · · · · · · · · ·		
LB, LBC, LBR Series	20 High temperature	e life test		
Specified Value   CB. CBC Series   Inductance change: Within±20%   No significant abnormality in appearance.			T_	
LBM Series   No significant abnormality in appearance.	Specified Value		T. I	
Test Methods and Remarks  Temperature : 85±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  21.Loading at high temperature life test  LB, LBC, LBR Series   Inductance change : Within±2096 No significant abnormality in appearance.  CB, CBC Series   Inductance change : Within±2096 No significant abnormality in appearance.  Test Methods and Remarks   Temperature : 85±2°C Duration : 1000 hrs Applied current : Rated current Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  22.Low temperature life test  LB, LBC, LBR Series   Inductance change : Within±2096 No significant abnormality in appearance.  LBM Series   Inductance change : Within±2096 No significant abnormality in appearance.  Test Methods and Remarks   Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series   Standard test conditions Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±2096. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: 20±2°C Relative humidity: 65±396		<u>'</u>	<del></del>	
Test Methods and Remarks  Duration Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.    Calcability   Calcab	-		The digilillocate abnormality in appearance.	
Recovery   At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.	Test Methods and	•		
LB, LBC, LBR Series	Remarks		standard condition after the test, followed by the measurement within 48 hrs.	
LB, LBC, LBR Series				
LB, LBC, LBR Series   No significant abnormality in appearance.	21.Loading at high t	emperature life test		
Specified Value  CB, CBC Series  LBM Series  Test Methods and Remarks  Specified Value  CB, CBC Series  LBM Series  Temperature : 85±2°C  Duration : 1000 hrs  Applied current : Rated current  Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  22.Low temperature life test  CB, CBC Series  LBM Series  Test Methods and Remarks  Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series  CB, CBC Series  Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: 20±2°C Relative humidity: 65±5%		10.100.100.1	Inductance change : Within±20%	
CB, CBC Series   LBM Series   Temperature   :85±2°C		LB, LBC, LBR Series	No significant abnormality in appearance.	
Test Methods and Remarks  Temperature : 85±2°C Duration : 1000 hrs Applied current : Rated current Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.   22.Low temperature life test  LB, LBC, LBR Series  CB, CBC Series  LBM Series  Test Methods and Remarks  Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series  LB, LBC, LBR Series  CB, CBC Series  LBM Series  Temperature : 85±2°C Duration after the test, followed by the measurement within 48 hrs.  Standard test conditions  Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: 20±2°C Relative humidity: 65±5%	Specified Value	CB, CBC Series		
Test Methods and Remarks  Duration : 1000 hrs Applied current Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  22.Low temperature life test  LB, LBC, LBR Series  CB. CBC Series  LBM Series  Test Methods and Remarks  Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series  LB, LBC, LBR Series  LB, LBC, LBR Series  CB, CBC Series  LB, LBC, LBR Series  LB, LBC, LBR Series  CB, CBC Series  LB, LBC, LBR Series  CB, CBC Series  LBM Series  Recovery  LBM Series  Standard test conditions  Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits:  Ambient Temperature: 20±2°C Relative humidity: 65±5%		LBM Series		
Remarks Applied current Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  22.Low temperature life test  LB, LBC, LBR Series  CB, CBC Series  LBM Series  Test Methods and Remarks  Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series  CB, CBC Series  LBM Series  L	-	Temperature : 85±2°C		
Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  22.Low temperature life test  LB, LBC, LBR Series  CB, CBC Series  LBM Series  Test Methods and Remarks  Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series  CB, CBC Series  Standard test conditions  Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits:  Ambient Temperature: 20±2°C Relative humidity: 65±5%	Test Methods and	Duration : 1000 hrs		
22.Low temperature life test  Specified Value  LB, LBC, LBR Series  CB, CBC Series  LBM Series  Test Methods and Remarks  Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series  CB, CBC Series  LBM Series  Standard test conditions  Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: 20±2°C Relative humidity: 65±5%	Remarks			
LB, LBC, LBR Series   Inductance change : Within±20%   No significant abnormality in appearance.		Recovery : At least 2 hrs of recovery under the s	standard condition after the test, followed by the measurement within 48 hrs.	
LB, LBC, LBR Series   Inductance change : Within±20%   No significant abnormality in appearance.				
Specified Value  CB, CBC Series  LBM Series  Test Methods and Remarks  Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series  CB, CBC Series  LBM Series  LBM Series  LBM Series  Inductance change : Within±20% No significant abnormality in appearance.  Standard condition after the test, followed by the measurement within 48 hrs.  Standard test conditions  Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: 20±2°C Relative humidity: 65±5%	22.Low temperature			
Test Methods and Remarks  Temperature : -40±2°C Duration : 1000 hrs Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 hrs.  23.Standard condition  LB, LBC, LBR Series  CB, CBC Series  Standard test conditions  Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits:  Ambient Temperature: 20±2°C Relative humidity: 65±5%		LB, LBC, LBR Series	Inductance change: Within + 20%	
Test Methods and Remarks  Temperature	Specified Value	CB, CBC Series		
Duration Remarks   Duration Recovery   1000 hrs		LBM Series		
Remarks    Duration	Test Methods and	•		
23.Standard condition  LB, LBC, LBR Series  CB, CBC Series  Specified Value  LBM Series  LBM Series  Standard test conditions Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits:  Ambient Temperature: 20±2°C Relative humidity: 65±5%				
LB, LBC, LBR Series  CB, CBC Series  Specified Value  LBM Series  Standard test conditions Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: 20±2°C Relative humidity: 65±5%	-	Recovery : At least 2 hrs of recovery under the s	tandard condition after the test, followed by the measurement within 48 hrs.	
LB, LBC, LBR Series  CB, CBC Series  Specified Value  LBM Series  Standard test conditions Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: 20±2°C Relative humidity: 65±5%				
CB, CBC Series  Unless specified, Ambient temperature is 20±15°C and the Relative humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits:  Ambient Temperature: 20±2°C Relative humidity: 65±5%	23.Standard condition	on		
Specified Value  LBM Series  humidity is 65±20%. If there is any doubt about the test results, further measurement shall be had within the following limits:  Ambient Temperature: 20±2°C Relative humidity: 65±5%		LB, LBC, LBR Series		
Specified Value  LBM Series  measurement shall be had within the following limits:  Ambient Temperature: 20±2°C  Relative humidity: 65±5%		CB, CBC Series		
LBM Series  Ambient Temperature: 20±2°C Relative humidity: 65±5%	Specified Value			
Relative humidity: 65±5%	1	LBM Series		
Inductance value is based on our standard measurement systems.				
			Inductance value is based on our standard measurement systems.	

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## WIRE-WOUND CHIP INDUCTORS (LB SERIES). WIRE-WOUND CHIP POWER INDUCTORS (CB SERIES). WIRE-WOUND CHIP INDUCTORS FOR SIGNAL LINES (LB SERIES M TYPE)

#### PRECAUTIONS

#### 1. Circuit Design 1. The products listed in this catalogue are intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment), general medical equipment, industrial equipment, and automotive Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause Precautions loss of human life or bodily injury (e.g., specially controlled medical equipment, transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment). Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment, nuclear control equipment, undersea equipment, military equipment, etc.). 2. PCB Design ◆Land pattern design Precautions 1. Please contact any of our offices for a land pattern, and refer to a recommended land pattern of a right figure or specifications. [Recommended Land Patterns] Technical Surface Mounting considerations Mounting and soldering conditions should be checked beforehand. · Applicable soldering process to those products is reflow soldering only. 3. Considerations for automatic placement ◆Adjustment of mounting machine Precautions 1. Excessive impact load should not be imposed on the products when mounting onto the PC boards. 2. Mounting and soldering conditions should be checked beforehand. Technical 1. When installing products, care should be taken not to apply distortion stress as it may deform the products. considerations 4. Soldering

#### ◆Reflow soldering( LB and CB Types)

1. For reflow soldering with either leaded or lead-free solder, the profile specified in "point for controlling" is recommended. ◆Recommended conditions for using a soldering iron

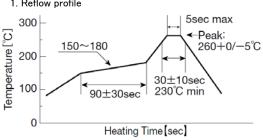
Precautions

1. Put the soldering iron on the land-pattern. Soldering iron's temperature - Below 350°C Duration-3 seconds or less. The soldering iron should not come in contact with inductor directly.

## ◆Reflow soldering( LB and CB Types)

1. Reflow profile

### Technical considerations



- Recommended conditions for using a soldering iron
  - 1. Components can be damaged by excessive heat where soldering conditions exceed the specified range.

#### 5. Cleaning

Precautions

Cleaning conditions

Washing by supersonic waves shall be avoided.

Technical considerations Cleaning conditions

If washed by supersonic waves, the products might be broken.

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6. Handling	
Precautions	<ul> <li>◆Handling</li> <li>1. Keep the inductors away from all magnets and magnetic objects.</li> <li>◆Breakaway PC boards (splitting along perforations)</li> <li>1. When splitting the PC board after mounting inductors, care should be taken not to give any stresses of deflection or twisting to the board.</li> <li>2. Board separation should not be done manually, but by using the appropriate devices.</li> <li>◆Mechanical considerations</li> <li>1. Please do not give the inductors any excessive mechanical shocks.</li> </ul>
Technical considerations	<ul> <li>◆Handling</li> <li>1. There is a case that a characteristic varies with magnetic influence.</li> <li>◆Breakaway PC boards( splitting along perforations)</li> <li>1. Planning pattern configurations and the position of products should be carefully performed to minimize stress.</li> <li>◆Mechanical considerations</li> <li>1. There is a case to be damaged by a mechanical shock.</li> </ul>

	♦Storage
	1. To maintain the solderability of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the
	storage area should be controlled.
Precautions	Recommended conditions
	Ambient temperature:0~40°C / Humidity:Below 70% RH
	The ambient temperature must be kept below 30°C even under ideal storage conditions, solderability of products electrodes may
	decrease as time passes. For this reason, These series should be used within 6 months from the time of delivery.
Technical	♦Storage
considerations	1. Under 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.

## **Mouser Electronics**

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### Taiyo Yuden:

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