

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 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.
- 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.

WIRE-WOUND CHIP INDUCTORS FOR SIGNAL LINES (LB SERIES M TYPE)

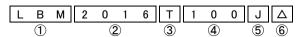




REFLOW

■PARTS NUMBER

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



△=Blank space

①Series name

Code	Series name
LBM	Wound chip inductor for signal line

②Dimensions (L × W)

_	-	· ·
Ī	Code	Dimensions (L × W) [mm]
	2016	2.0 × 1.6

③Packaging

3 Fackaging					
Code	Packaging				
T	Taping				

4 Nominal inductance

Code (example)	Nominal inductance [μ H]	
R12	0.12	
1R0	1.00	
100	10	
101	100	

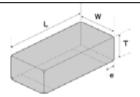
※R=Decimal point

(5)Inductance tolerance

Code	Inductance tolerance
J	±5%

⑥Internal code

■STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

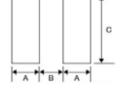


Recommended Land Patterns

Surface Mounting

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

	Type	Α	В	С
LBM2016		0.6	1.0	1.8
Ī				Unit:mm



Туре		L W	Т	е	Standard quantity [pcs]	
Туре	L				Paper tape	Embossed tape
LBM2016	2.0±0.2 (0.08±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.2 (0.02±0.008)	_	2000

Unit:mm(inch)

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LBM2016 type								
Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	Q (min.)	Self-resonant frequency [MHz] (min.)	DC Resistance [Ω](\pm 30%)	Rated current [mA] (max.)	Measuring frequency [MHz]
LBM 2016TR12J	RoHS	0.12	±5%	30	600	0.13	610	25.2
LBM 2016TR15J	RoHS	0.15	±5%	30	550	0.15	570	25.2
LBM 2016TR18J	RoHS	0.18	±5%	30	500	0.15	560	25.2
LBM 2016TR22J	RoHS	0.22	±5%	30	450	0.20	520	25.2
LBM 2016TR27J	RoHS	0.27	±5%	30	425	0.21	510	25.2
LBM 2016TR33J	RoHS	0.33	±5%	30	400	0.21	490	25.2
LBM 2016TR39J	RoHS	0.39	±5%	30	375	0.26	440	25.2
LBM 2016TR47J	RoHS	0.47	±5%	30	350	0.26	430	25.2
LBM 2016TR56J	RoHS	0.56	±5%	30	300	0.29	410	25.2
LBM 2016TR68J	RoHS	0.68	±5%	30	270	0.32	400	25.2
LBM 2016TR82J	RoHS	0.82	±5%	30	250	0.34	390	25.2
LBM 2016T1R0J	RoHS	1.0	±5%	30	220	0.38	385	7.96
LBM 2016T1R2J	RoHS	1.2	±5%	30	180	0.41	370	7.96
LBM 2016T1R5J	RoHS	1.5	±5%	30	135	0.47	350	7.96
LBM 2016T1R8J	RoHS	1.8	±5%	30	100	0.48	345	7.96
LBM 2016T2R2J	RoHS	2.2	±5%	30	75	0.54	340	7.96
LBM 2016T2R7J	RoHS	2.7	±5%	30	55	0.59	310	7.96
LBM 2016T3R3J	RoHS	3.3	±5%	30	48	0.68	290	7.96
LBM 2016T3R9J	RoHS	3.9	±5%	30	43	0.74	275	7.96
LBM 2016T4R7J	RoHS	4.7	±5%	30	40	0.78	270	7.96
LBM 2016T5R6J	RoHS	5.6	±5%	25	36	0.88	255	7.96
LBM 2016T6R8J	RoHS	6.8	±5%	25	33	0.97	240	7.96
LBM 2016T8R2J	RoHS	8.2	±5%	25	30	1.1	225	7.96
LBM 2016T100J	RoHS	10	±5%	25	27	1.2	215	2.52
LBM 2016T120J	RoHS	12	±5%	25	23	1.4	200	2.52
LBM 2016T150J	RoHS	15	±5%	25	20	1.5	190	2.52
LBM 2016T180J	RoHS	18	±5%	25	18	2.5	150	2.52
LBM 2016T220J	RoHS	22	±5%	25	17	2.8	140	2.52
LBM 2016T270J	RoHS	27	±5%	25	16	3.2	130	2.52
LBM 2016T330J	RoHS	33	±5%	25	15	3.6	125	2.52
LBM 2016T390J	RoHS	39	±5%	20	14	3.9	120	2.52
LBM 2016T470J	RoHS	47	±5%	20	13	4.1	115	2.52
LBM 2016T560J	RoHS	56	±5%	20	12	5.9	95	2.52
LBM 2016T680J	RoHS	68	±5%	20	11	7.0	90	2.52
LBM 2016T820J	RoHS	82	±5%	20	10	7.7	85	2.52
LBM 2016T101J	RoHS	100	±5%	15	9.0	8.0	80	0.796

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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)

3000

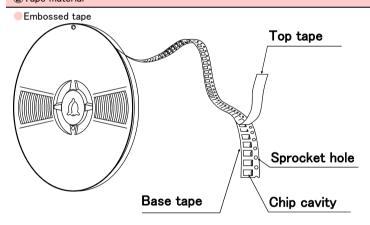
■PACKAGING

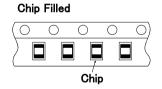
Type Standard Quantity [pcs] Paper Tape Embossed Tape LB C3225 — 1000 CB C3225 — 2000

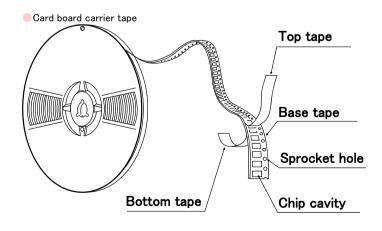
LB C3225		1000
CB C3225	_	1000
LB 3218	_	2000
LB R2518		
LB C2518		
LB 2518	_	2000
CB 2518		
CB C2518		
LBM2016		
LB C2016		
LB 2016	_	2000
CB 2016		
CB C2016		
LB 2012		
LB C2012		
LB R2012	_	3000
CB 2012		
CB C2012		
CB L2012	4000	_
LB 1608	4000	_

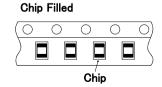
CBMF1608 ②Tape material

LBMF1608



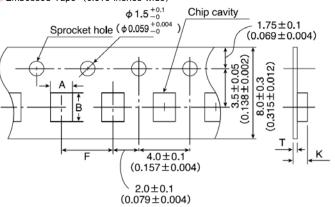






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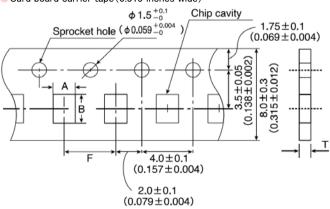
Embossed Tape (0.315 inches wide)



-	Chip	cavity	Insertion pitch	Tape thickness	
Type	Α	В	F	Т	K
LBM2016	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 C3225 CB C3225	2.8±0.1 (0.110±0.004)	3.5±0.1 (0.138±0.004)	4.0±0.1 (0.157±0.004)	0.3±0.05 (0.012±0.002)	4.0max. (0.157max.)
LB 3218	2.1±0.1 (0.083±0.004)	3.5±0.1 (0.138±0.004)	4.0±0.1 (0.157±0.004)	0.3±0.05 (0.012±0.002)	2.2max. (0.087max.)
LB 2518 CB 2518 LB C2518 CB C2518 LB R2518	2.15±0.1 (0.085±0.004)	2.7±0.1 (0.106±0.004)	4.0±0.1 (0.157±0.004)	0.3±0.05 (0.012±0.002)	2.2max. (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 CBMF1608	1.1±0.1 (0.043±0.004)	1.9±0.1 (0.075±0.004)	4.0±0.1 (0.157±0.004)	0.25±0.05 (0.010±0.002)	1.2max. (0.047max.)

Unit:mm(inch)

Card board carrier tape (0.315 inches wide)

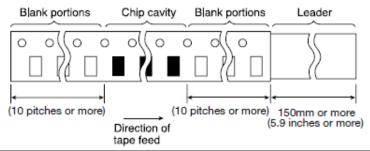


Chip o	cavity	Insertion pitch	Tape thickness
Α	В	F	Т
1.55±0.1	2.3±0.1	4.0±0.1	1.1max.
(0.061 ± 0.004)	(0.091 ± 0.004)	(0.157 ± 0.004)	(0.043max.)
1.0±0.1	1.8±0.1	4.0±0.1	1.1max.
(0.039 ± 0.004)	(0.071 ± 0.004)	(0.157 ± 0.004)	(0.043max.)
	A 1.55±0.1 (0.061±0.004) 1.0±0.1	(0.061±0.004) (0.091±0.004) 1.0±0.1 1.8±0.1	A B F 1.55±0.1

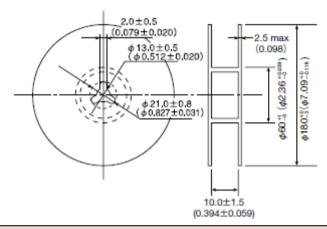
Unit:mm(inch)

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4 Leader and Blank Portion



⑤Reel Size



6Top 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 Top tape Base tape

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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

1.Operating tempera	ature Range					
	LB, LBC, LBR, LBMF Series					
Specified Value	CB, CBC, CBL, CBMF Series	-40~+105°C (Including self-generated heat)				
	LBM Series					
2. Storage Tempera	ture Range(after soldering)					
	LB, LBC, LBR, LBMF Series					
Specified Value	CB, CBC, CBL, CBMF Series	-40~+85°C				
	LBM Series	_				
Test Methods and	LB, CB Series:					
Remarks	Please refer the term of "7. storage conditions" in precaution	ns.				
3.Rated Current						
	LB, LBC, LBR, LBMF Series					
Specified Value	CB, CBC, CBL, CBMF Series	Within the specified tolerance				
	LBM Series					
4.Inductance						
	LB, LBC, LBR, LBMF Series					
Specified Value	CB, CBC, CBL, CBMF Series	Within the specified tolerance				
·	LBM Series	-				
Test Methods and Remarks	LB·LBC·LBR·CB·CBC·CBL·LBMF·CBMF·LBM Series Measuring equipment :LCR Mater(HP4285A or its e	I conivalent)				
Remarks	Measuring equipment . LON Mater (TIP 4200A of its e	rquivalent/				
5.Q						
v. .	LB, LBC, LBR, LBMF Series					
Specified Value	CB, CBC, CBL, CBMF Series	- -				
opecined value	LBM Series	Within the specified tolerance				
Test Methods and	LBM Series	Within the specified tolerance				
Remarks	Measuring equipment : LCR Mater(HP4285A or its ed	quivalent)				
		•				
6.DC Resisitance						
	LB, LBC, LBR, LBMF Series					
Specified Value	CB, CBC, CBL, CBMF Series	Within the specified tolerance				
·	LBM Series	-				
Test Methods and Remarks						
7.Self-Resonant Fre						
7.3611 Nesonant Fre	LB, LBC, LBR, LBMF Series	1				
Specified Value	CB, CBC, CBL, CBMF Series	Within the anguified televance				
Specified Value		Within the specified tolerance				
Test Methods and	LBM Series Measuring equipment : Impedance analyzer (HP4291A or its	equivalent)				
Remarks	measuring equipment . Impedance analyzer (TP4291A OF its	cyulvalciit/				

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8.Temperature Characteristic					
	LBM2016				Inductance change : Within±5%
	LB1608	LB2012	LBR2012	CB2012	12
	CBL2012	LB2016	CB2016	LB2518	Inductance change : Within±20%
Specified Value	LBR2518	CB2518	LBC3225	CBC322	225
	LBMF160	08 CBMF1608	LBC2016	CBC201	
	LBC2518	CBC2518	LB3218		Inductance change : Within±25%
	LBC2012	CBC2012			Inductance change : Within±35%
	Change of maximum inductance deviation in step 1-5				
	Step	Temperature (°C)			
		LB, CB Series			
Test Methods and	1	20			
Remarks	2	-40			
	3	20(Reference temperature)		e)	
	4	+85 (Maximum operating temperature)			
	5	20			_

9.Rasistance to Flexure of Substrate				
Specified Value	LB, LBC, LBR, LBMF Series	No damage.		
	CB, CBC, CBL, CBMF Series			
	LBM Series			
Test Methods and Remarks	Warp : 2mm(LB·LBC·LBR·CB·CBC·CBL·LBM·LBMF·CBMF Series) Test substrate : Board according to JIS C0051 Thickness : 0.8mm(LB·LBMF·CBMF1608)			
	Board R5 45±2mm 45±2mm			

Specified Value	LB, LBC, LBR, LBMF Series	No damage.			
	CB, CBC, CBL, CBMF Series				
	LBM Series				
	LB·LBC·LBR·CB·CBC·CBL·LBM				
	Applied force : 10N				
Test Methods and	Duration : 10sec.				
Remarks	LB1608+LBMF1608+CBMF1608				
	Applied force : 5N				
	Duration: 10sec.				

Specified Value	LB, LBC, LBR, LBMF Series			
	CB, CBC, CBL, CBMF Series		No abnormality.	
	LBM Series			
Test Methods and Remarks	Applied force	CBC·CBL·LBM·LBMF·CBMF : 10N to X and Y directions : 5 sec. : Printed board 8·LBMF1608 : 5N to X and Y directions : 5 sec. : Printed board		

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	oration			
Specified Value	LB, LBC, LBR, LBMF Series	Inductance change : Within±10% No significant abnormality in appearance.		
	CB, CBC, CBL, CBMF Series			
	LBM Series	Inductance change : Within±5% No significant abnormality in appearance.		
	LB·LBR·LBC·CB·CBC·CBL·LBM	CBMF : According to JIS C5102 clause 8.2.		
Test Methods and Remarks	Vibration type : A			
	Directions : 2 hrs each Frequency range : 10 to 55	and Z directions. Total:6 hrs		
	Amplitude : 1.5mm	(111111.)		
	Mounting method : Soldering	nted board		
	Recovery : At least : hrs.	ecovery under the standard condition after the test, followed by the measurement within 48		
	1113.			
13.Drop test				
	LB, LBC, LBR, LBMF Series			
Specified Value	CB, CBC, CBL, CBMF Series	_		
	LBM Series			
14.0-1-1				
14.Solderability	LB, LBC, LBR, LBMF Series			
Specified Value	CB. CBC. CBL. CBMF Series	At least 90% of surface of terminal electrode is covered by new		
opcomed value	LBM Series	Actions 60% of surface of continual closerode is covered by now		
	LB·LBC·LBR·CB·CBC·CBL·LBM	CBMF:		
Test Methods and	Solder temperature : 245±5°C			
Remarks	Duration : 5±0.5sec			
	Flux : Methano	with 25% of colophony		
15.Resistance to so	Idering			
To.Nesistance to so	LB, LBC, LBR, LBMF Series			
Specified Value	CB, CBC, CBL, CBMF Series	Inductance change : Within±10%		
opcomou value	LBM Series	Inductance change : Within±5%		
Test Methods and	LB·LBC·LBR·CB·CBC·CBL·LBM			
Remarks	3 times of reflow oven at 230°C M	sec. with peak temperature at 260 °C for 5sec.		
16.Resisitance to so				
	LB, LBC, LBR, LBMF Series			
Specified Value	CB, CBC, CBL, CBMF Series			
	LBM Series			
Test Methods and	Solvent temperature : Room temperature Type of solvent : Isopropyl alcohol			
Remarks	Cleaning conditions : 90s. Immersion and cleaning.			
17.Thermal shock				
	LB, LBC, LBR, LBMF Series	Inductance change : Within±10%		
Specified Value	CB, CBC, CBL, CBMF Series	No significant abnormality in appearance.		
	LBM Series			
Test Methods and	LB·LBC·LBR·CB·CBC·CBL·LBM·LBMF·CBMF: -40~+85°C, maintain times 30min. ,100 cycle			
Remarks	Recovery : At least 2 hrs	very under the standard condition after the test, followed by the measurement within 48 hrs		

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18.Damp heat life test					
	LB, LBC, LBR, LBMF Series				
Specified Value	CB, CBC, CBL, CBM	F Series	Inductance change : Within±10% No significant abnormality in appearance.		
•	LBM Series				
	Temperature : 60±2°C				
Test Methods and	Humidity	: 90~95%RH			
Remarks	Duration	: 1000 hrs			
	Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48 h				
19.Loading under da	amp host life tost				
19.Loading under da	LB, LBC, LBR, LBMF	Sovice			
	CB, CBC, CBL, CBM		Inductance change : Within±10%		
		r Series	No significant abnormality in appearance.		
Specified Value	LBM Series	CO L 0°O			
Test Methods and Remarks	Temperature Humidity	: 60±2°C : 90∼95%RH			
Remarks	Duration	: 1000 hrs			
	Applied current	: Rated current			
	Recovery	: At least 2 hrs of recovery under the sta	andard condition after the test, followed by the measurement within 48 hrs.		
0011: 1	rc .				
20.High temperature	1	· Ci.			
0 15 1141	LB, LBC, LBR, LBMF		_		
Specified Value	CB, CBC, CBL, CBM	F Series	Inductance change : Within±10%		
	LBM Series No significant abnormality in appearance.				
Test Methods and	Temperature	: 85±2°C			
Remarks	Duration Recovery				
	,	,	,		
21.Loading at high t	emperature life test				
			Inductance change : Within±10%		
	LB, LBC, LBR, LBMF	Series	(LBC3225 Series : Within±20%)		
Specified Value			No significant abnormality in appearance.		
	CB, CBC, CBL, CBM	F Series	_		
	LBM Series				
Total Models and and	Temperature : 85±2°C				
Test Methods and Remarks	Duration Applied current	: 1000 hrs : Rated current			
romanto	Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 4				
	l				
22.Low temperature	e life test				
	LB, LBC, LBR, LBMF	Series	Will 1202		
Specified Value	CB, CBC, CBL, CBMF Series		Inductance change: Within±10%		
	LBM Series		No significant abnormality in appearance.		
Total Mark 1	Temperature : −40±2°C				
Test Methods and Remarks	Duration	: 1000 hrs			
	Recovery : At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48				
23.Standard condition	1		0		
	LB, LBC, LBR, LBMF		Standard test conditions Unless specified, Ambient temperature is 20±15°C and the Relativ		
	CB, CBC, CBL, CBM	F Series	humidity is 65±20%. If there is any doubt about the test results, further		
Specified Value			measurement shall be had within the following limits:		
	LBM Series		Ambient Temperature: 20±2°C		
			Relative humidity: 65±5%		
	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

◆Operating environment

Precautions

1. The products described in this specification are intended for use in general electronic equipment, (office supply equipment, telecommunications systems, measuring equipment, and household equipment). They are not intended for use in mission-critical equipment or systems requiring special quality and high reliability (traffic systems, safety equipment, aerospace systems, nuclear control systems and medical equipment including life-support systems,) where product failure might result in loss of life, injury or damage. For such uses, contact TAIYO YUDEN Sales Department in advance.

Precautions Technical considerations PRECAUTIONS [Recommended Land Patterns] Surface Mounting • Mounting and soldering conditions should be checked beforehand. • Applicable soldering process to those products is reflow soldering only.

3. Considerations for automatic placement			
Precautions	◆Adjustment of mounting machine 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 considerations	1. When installing products, care should be taken not to apply distortion stress as it may deform the products.		

4. Soldering

◆Reflow soldering(LB and CB Types)

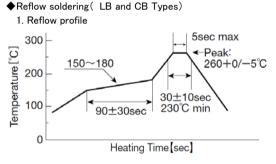
Precautions

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

igspaceRecommended conditions for using a soldering iron

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.

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

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

7. Storage conditions Precautions ↑ 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. • 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, LB type: Should be used within 6 months from the time of delivery. ↑ Storage 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.

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