请务必在使用敝司产品之前阅读。

/ 注意

- ■本产品目录所记载的内容为2016年10月之内容。因改良等原因,可能会不经预告而变更记载内容,所以请务必在使用前先确认最新的产品信息。未按照本产品目录所记载的内容或交货规格说明书使用敝司产品的,即便其致使使用设备发生损害、瑕疵等时,敝司也不承担任何责任,敬请悉知。
- 就规格相关的详细内容. 敝司备有交货规格说明书. 详情请向敝司咨询。
- 使用敝司产品时、请务必事先安装到设备之后、在实际使用的环境下进行评估和确认。
- ■本产品目录所中记载的产品可使用于一般电子设备 [音像设备、办公自动化设备、家电产品、办公设备、信息/通讯设备 (手机、电脑等)]。因此,若考虑将本产品目录所记载的产品使用于可能会直接危及生命或身体的设备 [运输用设备 (汽车驱动控制设备、火车控制设备、船舶控制设备等)、交通信号设备、防灾设备、医疗用器械、高公共性信息通信设备 (电话交换机以及电话、无线、广播电视等基站)]等时,请务必事先向敝司咨询。

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

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

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

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

■出口相关注意事项

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

绕线型片状功率电感器(CB 系列)

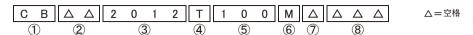




回流焊

■型号标示法

※使用温度范围: -40~+105℃ (包含产品本身发热)



①类型

代码	类型
СВ	绕线型片状功率电感器

②特性

代码	特性
ΔΔ	标准品
ΔC	大电流
ΔL	超薄
MF	低损耗

③尺寸 (L×W)

代码	外型 (inch)	尺寸 (L×W) [mm]
1608	1608 (0603)	1.6 × 0.8
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包装

代码	包装
Т	卷盘带装

⑤标称电感值

代码 (例)	标称电感值 [µH]
1R0	1.0
100	10
101	100

※R=小数点

⑥电感量公差

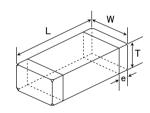
·	
代码	电感量公差
K	±10%
М	±20%

⑦个别规格

代码	个别规格
Δ	标准品
R	低Rdc 品

⑧本公司管理记号

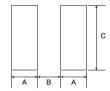
■标准外型尺寸 / 标准数量



推荐焊盘图案

实装上的注意

- ·请确认实装状态后使用。
- ·本产品焊法限定为回流焊法。



Туре	Α	В	С
MF1608	0.55	0.7	1.0
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

单位: mm

T		w	Т		标准数	量[pcs]	
Туре	L	VV		е	纸带	压纹带	
CBMF1608	1.6±0.2 (0.063±0.008)			0.45±0.15 (0.016±0.006)	_	3000	
CB L2012	2.0±0.2 (0.079±0.008)	1.25±0.2 (0.049±0.008)	0.9 ± 0.1 (0.035 \pm 0.004)	0.5 ± 0.2 (0.020±0.008)	4000	_	
CB 2012	2.0±0.2	1.25±0.2	1.25±0.2	0.5±0.2	_	3000	
CB C2012	(0.079 ± 0.008)	(0.049 ± 0.008)	(0.049 ± 0.008)	(0.020 ± 0.008)	_		
CB 2016	2.0±0.2	1.6±0.2	1.6±0.2	0.5±0.2	_	2000	
CB C2016	(0.079 ± 0.008)	(0.063 ± 0.008)	(0.063 ± 0.008)	(0.020 ± 0.008)	_	2000	
CB 2518	2.5±0.2	1.8±0.2	1.8±0.2	0.5±0.2	_	2000	
CB C2518	(0.098 ± 0.008)	(0.071 ± 0.008)	(0.071 ± 0.008)	(0.020 ± 0.008)	_		
OD COME	3.2±0.2	2.5±0.2	2.5±0.2	0.6±0.3		1000	
CB C3225	(0.126 ± 0.008)	(0.098 ± 0.008)	(0.098 ± 0.008)	(0.024 ± 0.012)	_	1000	

单位: mm (inch)

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

●1608 (0603) 型

型묵	EHS	标称电感值 [μH]	电感量公差	自共振频率 [MHz] (min.)	直流电阻 [Ω] (±30%)	额定电流	测试频率	
						直流重叠允许电流 Idc1	温度上升允许电流 Idc2	/则utyyy率 [MHz]
CBMF1608T1R0M	RoHS	1.0	±20%	100	0.09	290	770	7.96
CBMF1608T2R2M	RoHS	2.2	±20%	80	0.17	190	560	7.96
CBMF1608T3R3M	RoHS	3.3	±20%	60	0.22	170	500	7.96
CBMF1608T4R7M	RoHS	4.7	±20%	45	0.24	145	470	7.96
CBMF1608T100[]	RoHS	10	±10%, ±20%	32	0.36	115	380	2.52
CBMF1608T220[]	RoHS	22	±10%, ±20%	16	1.0	70	230	2.52
CBMF1608T470[]	RoHS	47	±10%, ±20%	11	2.5	50	140	2.52

●2012(0805)型

		1		自共振频率	直流电阻 [Ω] (±30%)	额定电流	※) [mA]	测试频率
型묵	EHS	标称电感值 [μH]	电感量公差	自共振频率 [MHz] (min.)		直流重叠允许电流 Idc1	温度上升允许电流 Idc2	[MHz]
CB 2012T1R0M	RoHS	1.0	±20%	100	0.15	500	900	7.96
CB 2012T2R2M	RoHS	2.2	±20%	80	0.23	410	770	7.96
CB 2012T3R3M	RoHS	3.3	±20%	55	0.30	330	650	7.96
CB 2012T4R7M	RoHS	4.7	±20%	45	0.40	300	580	7.96
CB 2012T6R8M	RoHS	6.8	±20%	38	0.47	250	540	7.96
CB 2012T100[]	RoHS	10	±10%, ±20%	32	0.70	190	440	2.52
CB 2012T100[R	RoHS	10	±10%, ±20%	32	0.50	200	520	2.52
CB 2012T150[]	RoHS	15	±10%, ±20%	28	1.3	170	320	2.52
CB 2012T220[]	RoHS	22	±10%, ±20%	16	1.7	135	280	2.52
CB 2012T470[]	RoHS	47	±10%, ±20%	11	3.7	90	190	2.52
CB 2012T680[]	R ₀ HS	68	±10%, ±20%	10	6.0	70	140	2.52
CB 2012T101[]	R₀HS	100	±10%, ±20%	8	7.0	60	130	0.796

				自共振频率 直流电阻 [MHz] (min.) [Ω] (±30%)	本 法由加	额定电流	2012-1-1	
型号	EHS	标称电感值 [μH]	电感量公差		直流重叠允许电流 Idc1	温度上升允许电流 ldc2	测试频率 [MHz]	
CB C2012T1R0M	RoHS	1.0	±20%	100	0.19	700	840	7.96
CB C2012T2R2M	RoHS	2.2	±20%	70	0.33	530	640	7.96
CB C2012T4R7M	RoHS	4.7	±20%	45	0.50	360	520	7.96
CB C2012T100[]	RoHS	10	±10%, ±20%	40	1.2	240	340	2.52
CB C2012T220[]	RoHS	22	±10%, ±20%	16	3.7	170	190	2.52
CB C2012T470[]	RoHS	47	±10%, ±20%	11	5.8	120	150	2.52

		仁和由成仿		自共振频率	直流电阻	额定电流 ※)[mA]		加以十七十五十
型 号	EHS	标称电感值 [μH]	电感量公差	日共振频率 [MHz] (min.)	且派电阻 [Ω] (±30%)	直流重叠允许电流 ldc1	温度上升允许电流 ldc2	测试频率 [MHz]
CB L2012T1R0M	RoHS	1.0	±20%	100	0.15	620	950	0.1
CB L2012T2R2M	RoHS	2.2	±20%	80	0.39	440	590	0.1
CB L2012T4R7M	RoHS	4.7	±20%	45	0.66	275	490	0.1
CB L2012T100M	RoHS	10	±20%	32	1.0	205	370	0.1
CB L2012T220M	RoHS	22	±20%	23	2.1	150	250	0.1
CB L2012T470M	R ₀ HS	47	±20%	11	4.2	100	140	0.1

●2016(0806)型

		标称电感值		自共振频率	直流电阻	额定电流	※) [mA]	测试频率
型号	EHS	你你电想值 [µH]	电感量公差	自共振频率 [MHz] (min.)	且派电阻 [Ω] (±30%)	直流重叠允许电流 ldc1	温度上升允许电流 Idc2	测试频率 [MHz]
CB 2016T1R0M	RoHS	1.0	±20%	100	0.09	600	1,100	7.96
CB 2016T1R5M	RoHS	1.5	±20%	80	0.11	550	1,000	7.96
CB 2016T2R2M	RoHS	2.2	±20%	70	0.13	510	1,000	7.96
CB 2016T3R3M	RoHS	3.3	±20%	55	0.20	400	800	7.96
CB 2016T4R7M	RoHS	4.7	±20%	45	0.25	340	740	7.96
CB 2016T6R8M	RoHS	6.8	±20%	38	0.35	300	600	7.96
CB 2016T100[]	RoHS	10	±10%, ±20%	32	0.50	250	520	2.52
CB 2016T150[]	RoHS	15	±10%, ±20%	28	0.70	210	440	2.52
CB 2016T220[]	RoHS	22	±10%, ±20%	16	1.0	165	370	2.52
CB 2016T330[]	RoHS	33	±10%, ±20%	14	1.7	130	270	2.52
CB 2016T470[]	R ₀ HS	47	±10%, ±20%	11	2.4	110	240	2.52
CB 2016T680[]	RoHS	68	±10%, ±20%	10	3.0	90	210	2.52
CB 2016T101[]	RoHS	100	±10%, ±20%	8	4.5	70	170	0.796
(注)注 大利 中 60 円 由 15 5	さき 単 目 ハ さ	±/1277 /N 4-+1/1						

⁽注)请在型号的[]中指定电感量公差代码 (M或K)。

- ※) 直流重叠允许电流 (Idc1) 为直流重叠带来的电感值下降,范围在30%以内的直流电感值 (at 20℃) ※) 温度上升允许电流 (Idc2) 为温度上升到40℃时的直流电感值 (at 20℃) ※) 额定电流值:Idc1或Idc2中低的一方的直流电流值当作额定电流值。

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

		1=15 do == /=		<u> </u>	± >+ + ==	额定电流	*) [mA]	And A-E-lett refer
型 号	EHS	标称电感值 [µH]	电感量公差	自共振频率 [MHz](min.)	直流电阻 [Ω] (±30%)	直流重叠允许电流 ldc1	温度上升允许电流 ldc2	测试频率 [MHz]
CB C2016T1R0M	RoHS	1.0	±20%	100	0.10	1,100	1,100	7.96
CB C2016T1R5M	RoHS	1.5	±20%	80	0.15	1,000	1,000	7.96
CB C2016T2R2M	RoHS	2.2	±20%	70	0.20	750	720	7.96
CB C2016T3R3M	RoHS	3.3	±20%	55	0.27	600	610	7.96
CB C2016T4R7M	RoHS	4.7	±20%	45	0.37	550	530	7.96
CB C2016T6R8M	RoHS	6.8	±20%	38	0.59	450	450	7.96
CB C2016T100[]	RoHS	10	±10%, ±20%	32	0.82	380	350	2.52
CB C2016T150[]	RoHS	15	±10%, ±20%	28	1.2	300	300	2.52
CB C2016T220[]	RoHS	22	±10%, ±20%	16	1.8	250	240	2.52
CB C2016T330[]	RoHS	33	±10%, ±20%	14	2.8	220	220	2.52
CB C2016T470[]	RoHS	47	±10%, ±20%	11	4.3	150	150	2.52
CB C2016T680[]	RoHS	68	±10%, ±20%	10	7.0	130	130	2.52
CB C2016T101[]	RoHS	100	±10%, ±20%	8	8.0	110	110	0.796

■2518(1007)型

■2518(1007)型								
型믁	EHS	标称电感值 [μH]	电感量公差	自共振频率 [MHz] (min.)	直流电阻 [Ω] (±30%)	额定电流 直流重叠允许电流 Idc1	※) [mA]温度上升允许电流Idc2	测试频率 [MHz]
CB 2518T1R0M	RoHS	1.0	±20%	100	0.06	1,200	1,500	7.96
CB 2518T1R5M	RoHS	1.5	±20%	80	0.07	650	1,400	7.96
CB 2518T2R2M	RoHS	2.2	±20%	68	0.09	510	1,300	7.96
CB 2518T3R3M	RoHS	3.3	±20%	54	0.11	440	1,200	7.96
CB 2518T4R7MR	RoHS	4.7	±20%	46	0.10	310	1,200	7.96
CB 2518T4R7M	RoHS	4.7	±20%	46	0.13	340	1,100	7.96
CB 2518T6R8M	RoHS	6.8	±20%	38	0.15	270	930	7.96
CB 2518T100□	RoHS	10	±10%, ±20%	30	0.25	250	820	2.52
CB 2518T150□	RoHS	15	±10%, ±20%	23	0.32	180	650	2.52
CB 2518T220□	RoHS	22	±10%, ±20%	19	0.50	165	580	2.52
CB 2518T330[]	RoHS	33	±10%, ±20%	15	0.70	130	460	2.52
CB 2518T470□	RoHS	47	±10%, ±20%	12	0.95	110	420	2.52
CB 2518T680□	RoHS	68	±10%, ±20%	9.5	1.5	70	310	2.52
CB 2518T101[]	RoHS	100	±10%, ±20%	9.0	2.1	60	260	0.796
CB 2518T151[]	RoHS	150	±10%, ±20%	7.0	3.2	55	210	0.796
CB 2518T221□	RoHS	220	±10%, ±20%	5.5	4.5	50	180	0.796
CB 2518T331[]	RoHS	330	±10%, ±20%	4.5	7.0	40	140	0.796
CB 2518T471[]	RoHS	470	±10%, ±20%	3.5	10	35	120	0.796
CB 2518T681[]	RoHS	680	±10%, ±20%	3.0	17	30	90	0.796
CB 2518T102[]	RoHS	1000	±10%, ±20%	2.4	24	25	75	0.252

						额定电流	※) [mA]	
型号	EHS	标称电感值 [μH]	电感量公差	自共振频率 [MHz](min.)	直流电阻 [Ω] (±30%)	直流重叠允许电流 ldc1	温度上升允许电流 ldc2	测试频率 [MHz]
CB C2518T1R0M	RoHS	1.0	±20%	100	0.08	1,000	1,200	7.96
CB C2518T1R5M	RoHS	1.5	±20%	80	0.11	950	1,190	7.96
CB C2518T2R2M	RoHS	2.2	±20%	68	0.13	890	1,100	7.96
CB C2518T3R3M	RoHS	3.3	±20%	54	0.16	730	1,020	7.96
CB C2518T4R7M	RoHS	4.7	±20%	41	0.20	680	920	7.96
CB C2518T6R8M	RoHS	6.8	±20%	38	0.30	550	740	7.96
CB C2518T100[]	R ₀ HS	10	±10%, ±20%	30	0.36	480	680	2.52
CB C2518T150[]	R ₀ HS	15	±10%, ±20%	23	0.65	350	500	2.52
CB C2518T220[]	R ₀ HS	22	±10%, ±20%	19	0.77	320	460	2.52
CB C2518T330[]	RoHS	33	±10%, ±20%	15	1.5	270	320	2.52
CB C2518T470[]	RoHS	47	±10%, ±20%	12	1.9	240	290	2.52
CB C2518T680[]	RoHS	68	±10%, ±20%	9.5	2.8	200	200	2.52
CB C2518T101[]	RoHS	100	±10%, ±20%	9.0	3.7	160	170	0.796
CB C2518T151[]	RoHS	150	±10%, ±20%	7.0	6.1	140	130	0.796
CB C2518T221[]	RoHS	220	±10%, ±20%	5.5	8.4	115	110	0.796
CB C2518T331[]	RoHS	330	±10%, ±20%	4.5	12.3	100	90	0.796
CB C2518T471	RoHS	470	±10%, ±20%	3.5	22	80	70	0.796
CB C2518T681	RoHS	680	±10%, ±20%	3.0	28	65	60	0.796

⁽注)请在型号的[]中指定电感量公差代码 (M或K)。

- ※)直流重叠允许电流(ldc1)为直流重叠带来的电感值下降,范围在30%以内的直流电感值(at 20℃)※)温度上升允许电流(ldc2)为温度上升到40℃时的直流电感值(at 20℃)
 ※)额定电流值:ldc1或ldc2中低的一方的直流电流值当作额定电流值。

●3225(1210)型

●0220(1210/±								
		标称电感值		自共振频率	直流电阻	额定电流	(mA)	测试频率
型号	EHS	小小电池值 [µH]	电感量公差	「MHz」(min.)	[Ω] (±30%)	直流重叠允许电流	温度上升允许电流	/则氏/贝卒 [MHz]
		[hii]		[171112] (111111.)	[17] (±3070)	ldc1	Idc2	[1011 12]
CB C3225T1R0MR	RoHS	1.0	±20%	250	0.055	2,000	1,440	0.1
CB C3225T1R5MR	RoHS	1.5	±20%	220	0.060	2,000	1,310	0.1
CB C3225T2R2MR	RoHS	2.2	±20%	190	0.080	2,000	1,130	0.1
CB C3225T3R3MR	RoHS	3.3	±20%	160	0.095	2,000	1,040	0.1
CB C3225T4R7MR	RoHS	4.7	±20%	70	0.100	1,250	1,010	0.1
CB C3225T6R8MR	RoHS	6.8	±20%	50	0.120	950	940	0.1
CB C3225T100□R	RoHS	10	±10%, ±20%	23	0.133	900	900	0.1
CB C3225T150□R	RoHS	15	±10%, ±20%	20	0.195	730	850	0.1
CB C3225T220□R	RoHS	22	±10%, ±20%	17	0.27	620	780	0.1
CB C3225T330□R	RoHS	33	±10%, ±20%	13	0.41	500	570	0.1
CB C3225T470□R	RoHS	47	±10%, ±20%	10	0.67	390	480	0.1
CB C3225T680∏R	RoHS	68	±10%, ±20%	8.0	1.0	320	410	0.1
CB C3225T101□R	RoHS	100	±10%, ±20%	6.0	1.4	270	340	0.1
CB C3225T221□R	RoHS	220	±10%, ±20%	3.0	2.5	190	190	0.1
CB C3225T821□R	RoHS	820	±10%, ±20%	1.8	12	110	110	0.1
CB C3225T102□R	RoHS	1000	±10%, ±20%	1.6	13	100	100	0.1
ハンハキナーカーロットローナルに		14 / Dara (8 4 12 4 4)						

⁽注)请在型号的[]中指定电感量公差代码 (M或K)。

^{※)} 直流重叠允许电流 (Idc1) 为直流重叠带来的电感值下降, 范围在30%以内的直流电感值 (at 20°C)

^{※)}温度上升允许电流(Idc2)为温度上升到40°C时的直流电感值(at 20°C) ※)额定电流值:Idc1或Idc2中低的一方的直流电流值当作额定电流值。

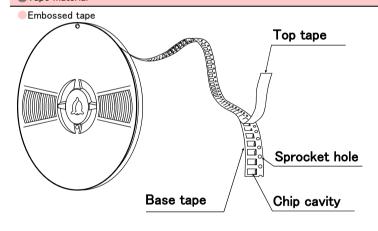
WIRE-WOUND CHIP INDUCTORS (LB SERIES), WIRE-WOUND CHIP POWER INDUCTORS (CB SERIES), WIRE-WOUND CHIP INDUCTORS FOR SIGNAL LINES (LB SERIES M TYPE)

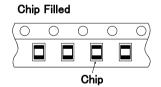
■PACKAGING

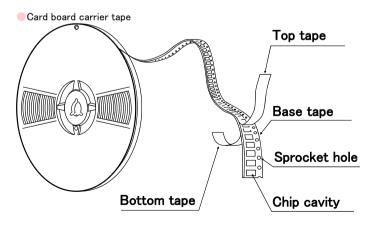
1 Minimum Quantity Type

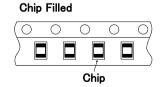
Type	Standard Qu	antity [pcs]	
Type	Paper Tape	Embossed Tape	
LB C3225	_	1000	
CB C3225	_	1000	
LB 3218	_	2000	
LB R2518			
LB C2518			
LB 2518	_	2000	
CB 2518			
CB C2518			
LBM2016			
LB C2016			
LB 2016	_	2000	
CB 2016			
CB C2016			
LB 2012			
LB C2012			
LB R2012	_	3000	
CB 2012			
CB C2012			
CB L2012	4000	_	
LB 1608	4000		
LBMF1608	_	3000	
CBMF1608	<u>-</u>	3000	

②Tape material



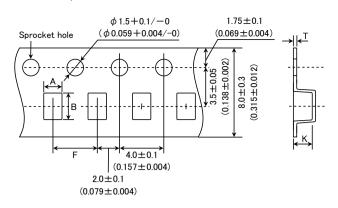






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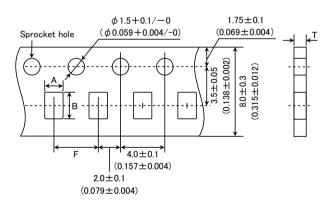
Embossed Tape (0.315 inches wide)



T	Chip	cavity	Insertion pitch	Tape th	ickness
Туре	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)

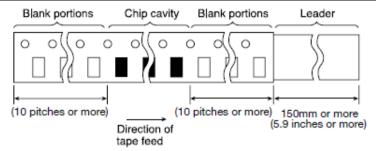


Tuma	Chip	cavity	Insertion pitch	Tape thickness
Туре	Α	В	F	Т
CB L2012	1.55±0.1	2.3±0.1	4.0±0.1	1.1max.
OB LZUIZ	(0.061 ± 0.004)	(0.091 ± 0.004)	(0.157 ± 0.004)	(0.043max.)
LB 1608	1.0±0.1	1.8±0.1	4.0±0.1	1.1max.
LB 1008	(0.039 ± 0.004)	(0.071 ± 0.004)	(0.157 ± 0.004)	(0.043max.)

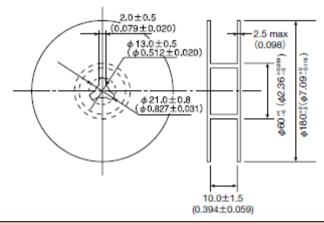
Unit:mm(inch)

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4 Leader and Blank Portion

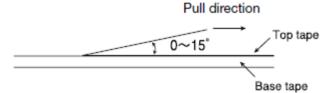


⑤Reel Size



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.



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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 temperating	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						
Remarks	Please refer the term of "7. storage conditions" in precauti	ons.				
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	LB·LBC·LBR·CB·CBC·CBL·LBMF·CBMF·LBM Series					
Remarks	Measuring equipment :LCR Mater(HP4285A or its Measuring frequency : Specified frequency	equivalent)				
	incusuring requestoy . Opcomed requestoy					
5.Q						
	LB, LBC, LBR, LBMF Series					
Specified Value	CB, CBC, CBL, CBMF Series	 -				
opcomod value	LBM Series	Within the specified tolerance				
Test Methods and	LBM Series	1				
Remarks	Measuring equipment : LCR Mater(HP4285A or its	equivalent)				
	Measuring frequency : Specified frequency					
6.DC Resisitance						
	LB, LBC, LBR, LBMF Series					
Specified Value	CB, CBC, CBL, CBMF Series	Within the specified tolerance				
	LBM Series					
Test Methods and	Measuring equipment : DC Ohmmeter (HIOKI 3227 or its e	quivalent)				
Remarks						
70-40						
7.Self-Resonant From						
0 '6 1'4'	LB, LBC, LBR, LBMF Series	— _{———————————————————————————————————}				
Specified Value	CB, CBC, CBL, CBMF Series	Within the specified tolerance				
LBM Series						
Test Methods and Remarks	Measuring equipment : Impedance analyzer(HP4291A or it	s equivalent)				

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8.Temperature Cha	8.Temperature Characteristic					
	LBM2016				Inductance change : Within±5%	
	LB1608	LB2012	LBR2012	CB2012		
	CBL2012	LB2016	CB2016	LB2518	Inductance change : Within±20%	
Specified Value	LBR2518	CB2518	LBC3225	CBC3225		
	LBMF1608	CBMF1608	LBC2016	CBC2016	The Mail 1950/	
	LBC2518	CBC2518	LB3218		Inductance change : Within±25%	
	LBC2012	CBC2012			Inductance change : Within±35%	
Test Methods and Remarks	Based on the	inductance at 2	0°C and Measι	ured at the ambie	ent of −40°C~+85°C.	

9.Rasistance to Fle	9.Rasistance to Flexure of Substrate						
	LB, LBC, LBR, LBMF Series						
Specified Value	CB, CBC, CBL, CBMF Series	No damage.					
	LBM Series						
Test Methods and Remarks	Warp : 2mm(LB·LBC·LBR·CB·CBC·CBL·LBM·L Test substrate : Glass epoxy-resin substrate Thickness : 0.8mm(LB1608·LBMF1608·CBMF1608) : 1.0mm(Others) Pressing jig 10 20 R340 Board R5 Board	BMF·CBMF Series)					

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

11.Adhesion of terminal electrode				
Specified Value	LB, LBC, LBR, LBMF Series		No abnormality.	
	CB, CBC, CBL, CBMF Series			
	LBM Series			
Test Methods and Remarks	LB·LBC·LBR·CB·CBC·CBL·LBM·LBMF·CBMF Applied force : 10N to X and Y directions Duration : 5 sec			

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12 Resistance to vil				
12.Resistance to vibration				
Specified Value	LB, LBC, LBR, LBMF Series		Inductance change : Within±10%	
	CB, CBC, CBL, CBMF Series		No significant abnormality in appearance.	
	LBM Series		Inductance change : Within±5% No significant abnormality in appearance.	
	LB·LBR·LBC·CB·CBC·CBL·	LBM•LBMF•CBMF:		
	The given sample is soldered to		d depending on the conditions of the following table.	
	Vibration Frequency	10~55Hz	100 (0)	
Test Methods and Remarks	Total Amplitude Sweeping Method	1.5mm (May not exceed acceled to 10Hz to 55Hz to 10Hz for 1min		
Remarks	Sweeping Method	X X	l. 	
	Time Y For 2 hours on each X, Y, and Z axis.		each X, Y, and Z axis.	
	Recovery: At least 2 hrs of recovery under the standard condition after the test, followed by the measurement within 48			
	l			
13.Drop test				
	LB, LBC, LBR, LBMF Series			
Specified Value	CB, CBC, CBL, CBMF Series		_	
·	LBM Series			
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		The reader 60 70 of carriage of community cross for the control of	
	LB·LBC·LBR·CB·CBC·CBL·	I RM I RME CRME		
Test Methods and	Solder temperature : 245:			
Remarks	•	0.5sec		
	Flux : Meti	hanol solution with 25% of col	ophony	
15.Resistance to so	ldering			
	LB, LBC, LBR, LBMF Series		Industance change: Within + 1004	
Specified Value	CB. CBC. CBL. CBMF Series		Inductance change : Within±10%	
·	OB, OBO, OBE, OBINI OCITICS			
	LBM Series		Inductance change : Within±5%	
Test Methods and		LBM•LBMF•CBMF:	Inductance change : Within±5%	
Test Methods and Remarks	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230	°C MIN for 40sec. with peak te	mperature at 260 °C for 5sec.	
	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230	°C MIN for 40sec. with peak te	-	
Remarks	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 2300 Recovery : At least 2 hrs of	°C MIN for 40sec. with peak te	mperature at 260 °C for 5sec.	
	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of	°C MIN for 40sec. with peak te	mperature at 260 °C for 5sec.	
Remarks 16.Resisitance to se	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of	°C MIN for 40sec. with peak te	mperature at 260 °C for 5sec.	
Remarks	LBM Series LB · LBC · LBR · CB · CBC · CBL · 3 times of reflow oven at 230 Recovery : At least 2 hrs of colvent LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series	°C MIN for 40sec. with peak te	mperature at 260 °C for 5sec.	
Remarks 16.Resisitance to se	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of	°C MIN for 40sec. with peak te	mperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.	
Remarks 16.Resisitance to se	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of Divent LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series LBM Series Solvent temperature : Roo	°C MIN for 40sec. with peak te recovery under the standard comments of	mperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.	
16.Resisitance to see Specified Value	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of Divent LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series LBM Series Solvent temperature : Roo Type of solvent : Isop	°C MIN for 40sec. with peak te recovery under the standard comments of	mperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.	
16.Resisitance to see Specified Value Test Methods and	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of Divent LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series LBM Series Solvent temperature : Roo Type of solvent : Isop	°C MIN for 40sec. with peak te recovery under the standard comments of	mperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.	
16.Resisitance to so Specified Value Test Methods and Remarks	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of Divent LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series LBM Series Solvent temperature : Roo Type of solvent : Isop	°C MIN for 40sec. with peak te recovery under the standard comments of	mperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.	
16.Resisitance to see Specified Value Test Methods and	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of Divent LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series LBM Series Solvent temperature : Roo Type of solvent : Isop Cleaning conditions : 90s.	°C MIN for 40sec. with peak te recovery under the standard comments of	mperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.	
Remarks 16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock	LBM Series LB·LBC·LBR·CB·CBC·CBL·3 times of reflow oven at 230' Recovery : At least 2 hrs of colored to the co	°C MIN for 40sec. with peak te recovery under the standard comments of	mperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.	
16.Resisitance to so Specified Value Test Methods and Remarks	LBM Series LB · LBC · LBR · CB · CBC · CBL · 3 times of reflow oven at 230 Recovery : At least 2 hrs of Divent LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series LBM Series Solvent temperature : Roo Type of solvent : Isop Cleaning conditions : 90s. LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series CB, CBC, CBL, CBMF Series	°C MIN for 40sec. with peak te recovery under the standard comments of	mperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.	
Remarks 16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock Specified Value	LBM Series LB·LBC·LBR·CB·CBC·CBL·3 times of reflow oven at 230' Recovery : At least 2 hrs of colored to the co	°C MIN for 40sec, with peak te recovery under the standard comments of	Inductance change: Within ± 10%	
16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock Specified Value Test Methods and	LBM Series LB·LBC·LBR·CB·CBC·CBL·3 times of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of recovery : At least 2 hrs o	°C MIN for 40sec, with peak te recovery under the standard commence of	Inductance change: Within±10% No significant abnormality in appearance.	
Remarks 16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock Specified Value	LBM Series LB·LBC·LBR·CB·CBC·CBL·3 times of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' R	°C MIN for 40sec, with peak te recovery under the standard commence of	Inductance change: Within ± 10%	
16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock Specified Value Test Methods and	LBM Series LB·LBC·LBR·CB·CBC·CBL·3 times of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' R	C MIN for 40sec. with peak te recovery under the standard commence of t	Inductance change: Within±10% No significant abnormality in appearance.	
16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock Specified Value Test Methods and	LBM Series LB·LBC·LBR·CB·CBC·CBL·3 times of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at l	C MIN for 40sec. with peak te recovery under the standard comments of t	Inductance change: Within±10% No significant abnormality in appearance.	
16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock Specified Value Test Methods and	LBM Series LB·LBC·LBR·CB·CBC·CBL·3 times of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at l	C MIN for 40sec. with peak te recovery under the standard commence of t	Inductance change: Within±10% No significant abnormality in appearance.	
16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock Specified Value Test Methods and	LBM Series LB·LBC·LBR·CB·CBC·CBL· 3 times of reflow oven at 230' Recovery : At least 2 hrs of Divent LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series LBM Series Solvent temperature : Roo Type of solvent : Isop Cleaning conditions : 90s. LB, LBC, LBR, LBMF Series CB, CBC, CBL, CBMF Series LB, LBC, LBR, LBMF Series LB, LBC, LBR, LBMF Series LBM Series LB·LBC·LBR·CB·CBC·CBL· The given sample is soldered to Condition Step Temperature (°C 1 —40±3 2 Room temperatu 3 +85±2	or MIN for 40sec. with peak te recovery under the standard comparison of the board and then its Inductions of 1 cycle Duration (min) 30±3 The Min	Inductance change: Within±10% No significant abnormality in appearance.	
16.Resisitance to see Specified Value Test Methods and Remarks 17.Thermal shock Specified Value Test Methods and	LBM Series LB·LBC·LBR·CB·CBC·CBL·3 times of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At least 2 hrs of reflow oven at 1230' Recovery : At least 2 hrs of reflow oven at 1230' Recovery : At least 2 hrs of reflow oven at 1230' Recovery : At least 2 hrs of reflow oven at 1230' Recovery : At least 2 hrs of reflow oven at 1230' Recovery : At least 2 hrs of reflow oven at 1230' Recovery : At least 2 hrs of reflow oven at 1230' Recovery : At least 2 hrs of reflow oven at 1230' Recovery : At least 2 hrs of reflow oven at 230' Recovery : At	or MIN for 40sec. with peak te recovery under the standard comparison of the standard comparison and cleaning. LBM•LBMF•CBMF: of the board and then its Inductions of 1 cycle Duration (min) 30±3 re Within 3 30±3 re Within 3	Inductance change: Within±10% No significant abnormality in appearance.	

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18.Damp heat life to	est			
	LB, LBC, LBR, LBMF Series			
Specified Value	CB, CBC, CBL, CBMF Series		Inductance change : Within±10%	
	LBM Series		No significant abnormality in appearance.	
	Temperature	: 60±2°C		
Test Methods and	Humidity	: 90~95%RH		
Remarks	Duration	: 1000 hrs	and and any distinct after the test followed by the mass warrant within 40 has	
	Recovery	: At least 2 hrs of recovery under the sta	andard condition after the test, followed by the measurement within 48 hrs.	
19.Loading under da	amp heat life test			
	LB, LBC, LBR, LBM	F Series		
	CB, CBC, CBL, CBN	MF Series	Inductance change : Within±10%	
Specified Value	LBM Series		No significant abnormality in appearance.	
Test Methods and	Temperature	: 60±2°C	<u> </u>	
Remarks	Humidity	: 90~95%RH		
	Duration	: 1000 hrs		
	Applied current Recovery	: Rated current : At least 2 hrs of recovery under the sta	andard condition after the test, followed by the measurement within 48 hrs.	
	. 10001019	isase 2 in 3 or recovery under the ste	and a serial distriction of the cost, followed by the measurement within 40 IIIs.	
20.High temperature	e life test			
	LB, LBC, LBR, LBM	F Series	-	
Specified Value	CB, CBC, CBL, CBN	MF Series	Inductance change : Within±10%	
	LBM Series		No significant abnormality in appearance.	
Test Methods and	Temperature	: 85±2°C		
Remarks	Duration : 1000 hrs			
	Recovery	: At least 2 hrs of recovery under the sta	andard condition after the test, followed by the measurement within 48 hrs.	
21 Loading at high t	temperature life test			
21.Loading at high t	lemperature me test		Indicators a house i Within to 1004	
	LB, LBC, LBR, LBM	F Series	Inductance change: Within±10% (LBC3225 Series: Within±20%)	
Specified Value			No significant abnormality in appearance.	
·	CB, CBC, CBL, CBN	MF Series		
	LBM Series			
	Temperature	: 85±2°C		
Test Methods and	Duration	: 1000 hrs		
Remarks	Applied current Recovery	: Rated current : At least 2 hrs of recovery under the sta	andard condition after the test, followed by the measurement within 48 hrs.	
	1	,		
22.Low temperature	e life test			
	LB, LBC, LBR, LBM	F Series		
Specified Value	CB, CBC, CBL, CBN	MF Series	Inductance change: Within±10%	
	LBM Series		No significant abnormality in appearance.	
T . M .!	Temperature	: -40±2°C		
Test Methods and Remarks	Duration	: 1000 hrs		
	Recovery	: At least 2 hrs of recovery under the sta	andard condition after the test, followed by the measurement within 48 hrs.	
	on			
23.Standard conditi	1			
23.Standard conditi	LB, LBC, LBR, LBM	F Series	Standard test conditions	
23.Standard conditi		F Series	Unless specified, Ambient temperature is 20±15°C and the Relative	
23.Standard conditi				
	LB, LBC, LBR, LBM		Unless specified, Ambient temperature is $20\pm15^{\circ}\text{C}$ and the Relative humidity is $65\pm20\%$. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: $20\pm2^{\circ}\text{C}$	
	LB, LBC, LBR, LBM		Unless specified, Ambient temperature is $20\pm15^{\circ}\text{C}$ and the Relative humidity is $65\pm20\%$. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: $20\pm2^{\circ}\text{C}$ Relative humidity: $65\pm5\%$	
	LB, LBC, LBR, LBM		Unless specified, Ambient temperature is $20\pm15^{\circ}\text{C}$ and the Relative humidity is $65\pm20\%$. If there is any doubt about the test results, further measurement shall be had within the following limits: Ambient Temperature: $20\pm2^{\circ}\text{C}$	

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

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.

2. PCB Design Precautions

◆Land pattern design

1. Please contact any of our offices for a land pattern, and refer to a recommended land pattern of a right figure or specifications.

Technical considerations

PRECAUTIONS

Surface Mounting

[Recommended Land Patterns]

- 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

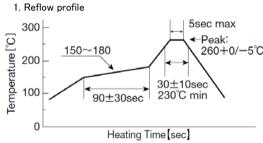
1. For reflow soldering with either leaded or lead-free solder, the profile specified in "point for controlling" is recommended.

◆Recommended 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.

◆Reflow soldering(LB and CB Types)





- ◆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	 ◆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, 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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