WIRE-WOUND CHIP POWER INDUCTORS (CB SERIES)





■PARTS NUMBER

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

С	В	Δ	Δ	2	0	1	2	Т	1	0	0	М	Δ	Δ	Δ	Δ	△=Blank space
($\overline{\mathbb{D}}$	(2	-	(3	3)		4		(5)		6	7		8		

①Series name	
Code	

Code	Series name
CB	Wound chip power inductor

2Characteristics

Code	Characteristics
^^	Standard
<u> </u>	High current
<u>ΔL</u>	Low profile
MF	Low loss

③Dimensions (L×W)

Code	Type (inch)	Dimensions (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)Packaging

	Code	Packaging
-	Т	Taping

⑤Nominal inductance

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

※R=Decimal point

6 Inductance tolerance

Code	Inductance tolerance
K	±10%
М	±20%

7 Special code

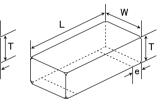
Code	Special code
Δ	Standard
R	Low Rdc type

8Internal code

■ STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

CB/CB C/CB L





Recommended Land Patterns

•Mounting and soldering conditions should be checked beforehand.

• Applicable soldering process to these products is reflow soldering only.

			C
A	В	A	

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

Unit:mm

Tuna		W	т		Standard quantity[pcs]		
Туре	L	VV	-	е	Paper tape	Embossed tape	
CBMF1608	1.6±0.2	0.8 ± 0.2	0.8 ± 0.2	0.45±0.15	_	3000	
CDIVIF 1006	(0.063 ± 0.008)	(0.031 ± 0.008)	(0.031 ± 0.008)	(0.016 ± 0.006)		3000	
CB L2012	2.0 ± 0.2	1.25±0.2	0.9 ± 0.1	0.5±0.2	4000	-	
OB LZ01Z	(0.079 ± 0.008)	(0.049 ± 0.008)	(0.035 ± 0.004)	(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)		3000	
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)		2000	
CB C3225	3.2 ± 0.2	2.5±0.2	2.5 ± 0.2	0.6 ± 0.3	_	1000	
OB C3ZZ3	(0.126 ± 0.008)	(0.098 ± 0.008)	(0.098 ± 0.008)	(0.024 ± 0.012)	_	1000	

Unit:mm(inch)

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■1608(0603)type

■ 1000 (0000) type								
		Nominal inductance		Self-resonant	DC Resistance	Rated curren	t ※)[mA]	Measuring
Parts number	Parts number EHS Normal inductance Inductance tolerance frequency [MHz] (min.)		[Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	frequency[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) type

		Nominal inductance		Self-resonant	DC Resistance	Rated curren	t ※)[mA]	Measuring
Parts number	EHS	[μ H]	Inductance tolerance	frequency [MHz] (min.)	[Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	frequency[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	R₀HS	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[]	RoHS	68	±10%, ±20%	10	6.0	70	140	2.52
CB 2012T101[]	RoHS	100	±10%, ±20%	8	7.0	60	130	0.796

No		Nominal inductance		Self-resonant	DC Resistance	Rated curren	t ※)[mA]	Measuring
Parts number	EHS	[μ H]	Inductance tolerance	frequency [MHz] (min.)	$[\Omega](\pm 30\%)$	Saturation current Idc1	Temperature rise current Idc2	frequency[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

	Naminal industry			Self-resonant	DC Resistance	Rated curren	t ※)[mA]	Management
Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	frequency [MHz] (min.)	$[\Omega](\pm 30\%)$	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[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	RoHS	47	±20%	11	4.2	100	140	0.1

2016(0806)type

		Managard Sadardana		Self-resonant	DO De determina	Rated curren	t ※)[mA]	Managemen
Parts number	EHS	Nominal inductance [μ H]			DC Resistance [Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[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[]	R₀HS	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[]	RoHS	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

^{• ☐} Please specify the Inductance tolerance code(Kor M)

[%]) The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%.(at 20°C)

 $[\]mbox{\ensuremath{\mbox{\%}}})\mbox{\ensuremath{\mbox{The}}}$ rated current value is following either Idc1 or Idc2, which is the lower one.

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		Nominal inductance		Self-resonant	DC Resistance	Rated currer	nt ※)[mA]	Measuring
Parts number	EHS	[μ H]			$[\Omega](\pm 30\%)$	Saturation current Idc1	Temperature rise current Idc2	frequency[MHz]
CB C2016T1R0M	R₀HS	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[]	R₀HS	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)type

		Manufact Sodowkana		Self-resonant	DO De distance	Rated curren	t ※)[mA]	Manager
Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	frequency [MHz] (min.)	DC Resistance [Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[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

				Self-resonant		Rated curren	t ※)[mA]	
Parts number	EHS	Nominal inductance [μ H]	Inductance tolerance	frequency [MHz] (min.)	DC Resistance [Ω](±30%)	Saturation current Idc1	Temperature rise current Idc2	Measuring frequency[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[]	RoHS	10	±10%, ±20%	30	0.36	480	680	2.52
CB C2518T150[]	RoHS	15	±10%, ±20%	23	0.65	350	500	2.52
CB C2518T220[]	RoHS	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

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

[%]) The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%.(at 20°C)

^{*)} The rated current value is following either Idc1 or Idc2, which is the lower one.

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INDUCTORS

3225(1210)type

		Nominal inductance		Self-resonant	DC Resistance	Rated curren	t ※)[mA]	Measuring
Parts number	EHS	[μ H]	Inductance tolerance	frequency [MHz] (min.)	$[\Omega](\pm 30\%)$	Saturation current Idc1	Temperature rise current Idc2	frequency[MHz]
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

[•] $\ \square$ Please specify the Inductance tolerance code (Kor M)

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

^{**}X)The resolution current value (tdc1) is the DC current value having inductance decrease down to 30% (at 20°C) **X)The rated current value is following either Idc1 or Idc2, which is the lower one.

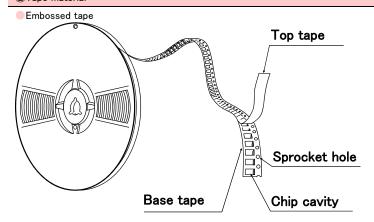
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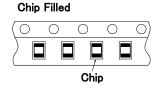
WIRE-WOUND CHIP INDUCTORS (LB SERIES), WIRE-WOUND CHIP POWER INDUCTORS (CB SERIES), WIRE-WOUND CHIP INDUCTORS FOR SIGNAL LINES (LB SERIES M TYPE)

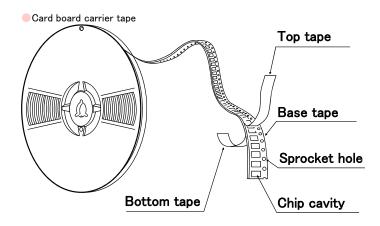
PACKAGING

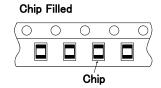
1 Minimum Quantity Standard Quantity [pcs] Туре Paper Tape Embossed Tape LB C3225 1000 CB C3225 LB 3218 2000 LB R2518 LB C2518 2000 LB 2518 CB 2518 CB C2518 LBM2016 LB C2016 LB 2016 2000 CB 2016 CB C2016 LB 2012 LB C2012 LB R2012 3000 CB 2012 CB C2012 CB L2012 4000 LB 1608 4000 LBMF1608 3000

CBMF1608 2 Tape material



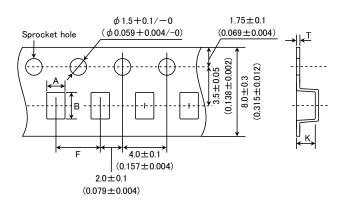






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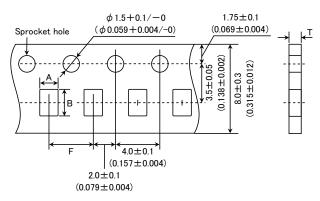
Embossed Tape (0.315 inches wide)



Т	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)

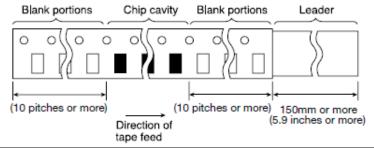


_	Chip	cavity	Insertion pitch	Tape thickness
Туре	Α	В	F	Т
OD 1 0010	1.55±0.1	2.3±0.1	4.0±0.1	1.1max.
CB L2012	(0.061 ± 0.004)	(0.091 ± 0.004)	(0.157 ± 0.004)	(0.043max.)
LD 1000	1.0±0.1	1.8±0.1	4.0±0.1	1.1max.
LB 1608	(0.039 ± 0.004)	(0.071 ± 0.004)	(0.157 ± 0.004)	(0.043max.)

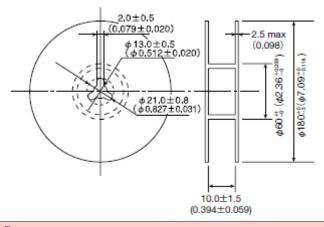
 $\mathsf{Unit}\!:\!\mathsf{mm}(\mathsf{inch})$

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4 Leader and Blank Portion



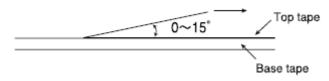
⑤Reel Size



©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

1.Operating temper	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	LB, CB Series: Please refer the term of "7. storage conditions" in precaution	is.					
	-						
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 Measuring frequency : Specified frequency	quivalent)					
5.Q							
	LB, LBC, LBR, LBMF Series	_					
Specified Value	CB, CBC, CBL, CBMF Series						
	LBM Series	Within the specified tolerance					
Test Methods and Remarks	LBM Series Measuring equipment : LCR Mater(HP4285A or its eq Measuring frequency : Specified frequency	uivalent)					
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	Measuring equipment : DC Ohmmeter (HIOKI 3227 or its equivalent)						
7.Self-Resonant Fr		T					
	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 its o	equivalent)					

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8.Temperature Characteristic					
Specified Value	LBM2016				Inductance change : Within±5%
	LB1608	LB2012	LBR2012	CB2012	
	CBL2012	LB2016	CB2016	LB2518	Inductance change : Within±20%
	LBR2518	CB2518	LBC3225	CBC3225	
	LBMF1608	CBMF1608	LBC2016	CBC2016	The Main 1000
	LBC2518	CBC2518	LB3218		Inductance change : Within±25%
	LBC2012	CBC2012			Inductance change : Within±35%
Test Methods and Remarks	Based on the inductance at 20°C and Measured at the ambient of $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$.				

9.Rasistance to Flexure of Substrate			
	LB, LBC, LBR, LBMF Series	No damage.	
Specified Value	CB, CBC, CBL, CBMF Series		
	LBM Series		
	Warp : 2mm(LB·LBC·LBR·CB·CBC·CBL·LBM·LBMF·CBMF Series)		
Test Methods and Remarks	Test substrate : Glass epoxy-resin substrate Thickness : 0.8mm(LB1608 • CBMF1608) : 1.0mm(Others) Pressing jig 10 R340 Board R5 45±2mm 45±2mm 45±2mm		

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

11.Adhesion of terminal electrode				
Specified Value	LB, LBC, LBR, LBMF Series			
	CB, CBC, CBL, CBMF Series	No abnormality.		
	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. Test substrate : Printed board LB1608·CBMF1608·LBMF1608 Applied force : 5N to X and Y directions Duration : 5 sec. Test substrate : Printed board			

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12.Resistance to vib	pration						
	LB, LBC, LBR, LBMF Series		Inductance change : Within±10%				
C:E1 \/-l	CB, CBC, CBL, CBMF Series		No significant abnormality in appearance.				
Specified Value	LBM Series		Inductance change : Within±5% No significant abnormality in appearance.				
	LB·LBR·LBC·CB·CBC·CBL	·I BM·I BMF·CBMF:	, II				
		The given sample is soldered to the board and then it is tested depending on the conditions of the following table.					
	Vibration Frequency 10∼55Hz						
Test Methods and	Total Amplitude	1.5mm (May not exceed accel					
Remarks	Sweeping Method	10Hz to 55Hz to 10Hz for 1mi	n				
	Time		n each X, Y, and Z axis.				
	Recovery : At least 2 hrs o	f recovery under the standard c	ondition after the test, followed by the measurement within 48 hrs.				
13.Drop test							
	LB, LBC, LBR, LBMF Series						
Specified Value	CB, CBC, CBL, CBMF Series		-				
opecified value	LBM Series						
	LDIVI Series						
440.11 1.111							
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				
	LBM Series						
T . M .:	LB·LBC·LBR·CB·CBC·CBL	_					
Test Methods and Remarks	·	5±5°C ∈0.5sec					
Remarks		thanol solution with 25% of col	lophony				
15.Resistance to so	Idering						
	LB, LBC, LBR, LBMF Series						
Specified Value	CB, CBC, CBL, CBMF Series		Inductance change: Within±10%				
Specified value	LBM Series						
T . M .: 1		LDM LDME ODME	Inductance change : Within±5%				
Test Methods and Remarks		0° C MIN for 40sec. with peak te	emperature at 260 °C for 5sec. ondition after the test, followed by the measurement within 48 hrs.				
	,						
16.Resisitance to so	olvent						
TO. Resistance to se	LB, LBC, LBR, LBMF Series						
C:E1 \/-l			-				
Specified Value	CB, CBC, CBL, CBMF Series		-				
	LBM Series						
Test Methods and	•	om temperature propyl alcohol					
Remarks		s. Immersion and cleaning.					
17.Thermal shock							
17.11101mar oneon	LB, LBC, LBR, LBMF Series						
Coosified Value	CB, CBC, CBL, CBMF Series		Inductance change : Within±10%				
Specified Value	No significant abnormality in appearance.						
—	LBM Series	1 BM 1 BM = 2 = 2 = 2	<u> </u>				
Test Methods and							
Remarks	The given sample is soldered to the board and then its Inductance is measured after 100cycles of the following conditions. Conditions of 1 cycle						
	Step Temperature (°						
	1 -40±3	30±3					
	2 Room temperat	ure Within 3					
	3 +85±2 4 Room temperat	30±3 ure Within 3					

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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	l '	: 90~95%RH			
Remarks	Duration	: 1000 hrs			
	Recovery	: At least 2 hrs of recovery under the sta	ndard condition after the test, followed by the measurement within 48 hrs.		
19.Loading under da	mp heat life test				
	LB, LBC, LBR, LBMF	Series	West 14007		
	CB, CBC, CBL, CBMF Series		Inductance change : Within±10% No significant abnormality in appearance.		
Specified Value	LBM Series		The significant abtentiality in appearance.		
Test Methods and	Temperature	: 60±2°C			
Remarks	Humidity	: 90∼95%RH			
		: 1000 hrs			
		: Rated current	and any distingtion of the state followed by the management within 10 by		
	Recovery	. At least 2 firs of recovery under the sta	indard condition after the test, followed by the measurement within 48 hrs.		
2011: 1	PC				
20.High temperature					
	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	l '	: 85±2°C			
Remarks		: 1000 hrs			
	Recovery	. At least 2 firs of recovery under the sta	indard condition after the test, followed by the measurement within 48 hrs.		
041 1 1111					
21.Loading at high t	emperature life test				
	LB, LBC, LBR, LBMF Series		Inductance change: Within±10%		
0 10 11/1			(LBC3225 Series : Within±20%) No significant abnormality in appearance.		
Specified Value	CB, CBC, CBL, CBMF Series		The digital data and the many in appearance.		
	LBM Series		-		
		: 85±2°C			
Test Methods and		: 85±2 C : 1000 hrs			
Remarks		: Rated current			
			ndard condition after the test, followed by the measurement within 48 hrs.		
22.Low temperature	e life test				
	LB, LBC, LBR, LBMF	Series			
Specified Value	CB, CBC, CBL, CBMF Series		Inductance change : Within±10%		
oposition talas	LBM Series		No significant abnormality in appearance.		
	Temperature : -40±2°C				
Test Methods and	'	: 1000 hrs			
Remarks			indard condition after the test, followed by the measurement within 48 hrs.		
23.Standard condition	on				
	Standard test conditions				
	LB, LBC, LBR, LBMF 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		
Specified Value	CB, CBC, CBL, CBMF Series		measurement shall be had within the following limits:		
			Ambient Temperature: 20±2°C		
	LBM Series		Relative humidity: 65±5% Inductance value is based on our standard measurement systems.		
	<u> </u>		and described value to bused 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

Precautions

◆Operating environment

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 [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

Precautions

◆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.

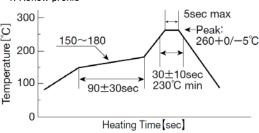
lacktriangleRecommended conditions for using a soldering iron

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)

1. Reflow profile





- ◆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 1. Keep the inductors away from all magnets and magnetic objects. ◆Breakaway PC boards (splitting along perforations) 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. 2. Board separation should not be done manually, but by using the appropriate devices. ◆Mechanical considerations 1. 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 ◆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 Precautions 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, product should be used within 6 months from the time of delivery. In case of storage over 6 months, solderability shall be checked before actual usage. **♦**Storage Technical 1. Under a high temperature and humidity environment, problems such as reduced solderability caused by oxidation of terminal electrodes considerations and deterioration of taping/packaging materials may take place.

单击下面可查看定价,库存,交付和生命周期等信息

>>Taiyo Yuden(太阳诱电)