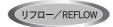
巻線チップインダクタ **WOUND CHIP INDUCTORS** LB SERIES

OPERATING TEMP. -25~+85°C



特長 **FEATURES**

- ・超小型、低直流抵抗の巻線チップインダクタ
- ・実装性、特性において方向性のない形状

- · Small size wound chip inductor with low DC resistance.
- · Demension without directional influence on mounterbility and characteris-

用途 APPLICATIONS

・DVC, MD, PDA等の携帯AV機器, ディジタル機器

· DVC, MD, PDA and other portable digital equipment.

形名表記法 ORDERING CODE

形式 巻線チップインダクタ LB

外径寸法 [mm]		
1608(0603)	1.6×0.8	
2016(0806)	2.0×1.6	
2012(0805)	2.0×1.25	
2518(1007)	2.5×1.8	

公称インダクタンス [μH]		
例		
1R0	1	
100	10	
101	100	
※R= 小数点		



形状	
	低 Rdc
C	大電流

包装	
В	単品
т	テーピング

当社管理記号	-
	標準品
	△= スペース

LB \(\triangle 2 \, 0 \, 1 \, 6 \, T \, 1 \, 0 \, 0 \, M \, \triangle \)

_	
Туре	
LB	Wound chip inductor

External Dimensions (mm)		
1608(0603)	1.6×0.8	
2016(0806)	2.0×1.6	
2012(0805)	2.0×1.25	
2518(1007)	2.5×1.8	

Nominal Inductance(µH)	
example	
1R0	1
100	10
101	100

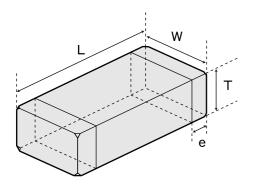
Inductance Tolerances (%)	
M	±20

Shape	
Δ	Low Rdc
С	High current Type

Bulk
Tape & Reel

*R=decimal point

7	
Internal code	
△△△ Standard Products	
	nk snace



Туре	L	W	Т	E
LB2518/	2.5±0.2	1.8±0.2	1.8±0.2	0.5±0.2
LBC2518	(0.098±0.008)	(0.071±0.008)	(0.071±0.008)	(0.020±0.012)
LB2016	2.0±0.2	1.6±0.2	1.6±0.2	0.5±0.2
LB2016	(0.079±0.008)	(0.063±0.008)	(0.063±0.008)	(0.020±0.012)
LB2012	2.0±0.2	1.25±0.2	1.25±0.2	0.5±0.2
LB2012	(0.079±0.008)	(0.049±0.008)	(0.049±0.008)	(0.020±0.012)
LB1608	1.6±0.1	0.8±0.1	0.8±0.1	0.35±0.2
LD 1008	(0.063±0.008)	(0.031±0.004)	(0.031±0.004)	(0.014±0.010)

Unit: mm(inch)

概略バリエーション AVAILABLE INDUCTANCE RANGE



画 s	Inductance	Imax[mA]	Rdc±30%[Ω]	Imax[mA]	Rdc±30%[Ω]	Imax[mA]	Rdc±30%[Ω]	Imax[mA]	Rdc±30%[Ω]	Imax[mA]	Rdc±30%[Ω]
表 値 mples	1μH	500	0.06	455	0.09	300	0.15	70(4.7μH)	0.55(4.7 µH)	775	0.08
X	10μH	165	0.25	155	0.5	100	0.7	50(8.2μH)	0.70(8.2 µH)	300	0.36
代 回	100μH	55	2.1	40	4.5	30	7.0	_	_	100	3.70
	1000 μH	15	24	_	_	_	_	_	_	_	_



etc











LB1608 TYPE —

形 名	公称 インダクタンス Inductance [μH]	インダクタンス 許容差 Inductance Tolerance	Q 値 Typical Value	数 Self-resonant frequency [MHz] min.	直流抵抗 DC Resistance [Ω] (±30%)	電流 Rated current [mA] max.	数 Measuring frequency [MHz]
LB1608□4R7M	4.7	0004	_	45	0.55	70	7.96
LB1608□8R2M	8.2	20%	5	32	0.70	50	2.52

・注:形名の□に 包装記号 ・□ Please specify the packaging code.(T:Tape&Reel, B:Bulk)

LB2012 TYPE ———

形名	公称 インダクタンス	インダクタンス 許容差	Q 値	数 Self-resonant	直流抵抗 DC	電流 Rated	数
Oud-visse seeds	Inductance	Inductance	Typical Value	frequency (MHz)	Resistance (Ω)	current (mA)	Measuring frequency
Ordering code	(μH)	Tolerance	,,	min.	(±30%)	max.	(MHz)
LB2012□1R0M	1.0			100	0.15	300	
LB2012□2R2M	2.2		5	80	0.23	240	7.96
LB2012□4R7M	4.7			45	0.4	140	
LB2012□100M	10	±20%		32	0.7	100	
LB2012□100MR	10	±20%		32	0.5	100	2.52
LB2012□220M	22		10	16	1.7	75	2.52
LB2012□470M	47			11	3.7	50	
LB2012□101M	100			8	7.0	30	0.796

・注:形名の□に 包装記号 K公差品 、 い LB2016 TYPE • □ Please specify the packaging code.(T: Tape&Reel, B: Bulk)

形名	公称 インダクタンス			数 Self-resonant	直流抵抗 DC Resistance	電流 Rated current	数 Measuring
Ordering code	Inductance	Inductance	Typical Value	frequency (MHz)	[Ω]	(mA)	frequency
Ordering code	(μH)	Tolerance		min.	(±30%)	max.	(MHz)
LB2016□1R0M	1			100	0.09	455	
LB2016□1R5M	1.5			80	0.11	350	
LB2016□2R2M	2.2			70	0.13	315	7.96
LB2016□3R3M	3.3			55	0.2	280	7.50
LB2016□4R7M	4.7			45	0.25	210	
LB2016□6R8M	6.8			38	0.35	175	
LB2016□100M	10	±20%	10	32	0.5	155	
LB2016□150M	15			28	0.7	130	
LB2016□220M	22			16	1.0	105	2.52
LB2016□330M	33			14	1.7	85	2.52
LB2016□470M	47			11	2.4	60	
LB2016□680M	68			10	3	50	
LB2016□101M	100			8	4.5	40	0.796

LB2016□101M | ・注:形名の□に 包装記号 · ☐ Please specify the packaging code.(T: Tape&Reel, B: Bulk)

K公差品 LB2518 TYPE ———

形 名		公称 インダクタンス Inductance 〔μH〕	インダクタンス 許容差 Inductance Tolerance	Q 値 Typical Value	数 Self-resonant frequency (MHz) min.	直流抵抗 DC Resistance [Ω] (±30%)	電流 Rated current [mA] max.	数 Measuring frequency [MHz]
LB2518□1R0M		1	10.0.0.00		100	0.06	500	(IVII IZ)
LB2518□1R5M		1.5			80	0.07	400	
LB2518□2R2M		2.2			68	0.09	340	7.00
LB2518□3R3M		3.3			54	0.11	270	7.96
LB2518□4R7M		4.7			46	0.13	240	
LB2518□6R8M		6.8			38	0.15	195	
LB2518□100M		10			30	0.25	165	
LB2518□150M		15			23	0.32	145	
LB2518□220M		22	±20%	10	19	0.5	115	2.52
LB2518□330M		33			15	0.7	95	2.32
LB2518□470M		47			12	0.95	85	
LB2518□680M		68			9.5	1.5	70	
LB2518□101M		100			9	2.1	55	
LB2518□151M		150			7	3.2	45	
LB2518□221M		220			5.5	4.5	35	
LB2518□331M		330			4.5	7	30	0.796
LB2518□471M		470			3.5	10	25	
LB2518□681M		680			3	17	20	
LB2518□102M		1000			2.4	24	15	0.252
・注:形名の□に 包	装記号	· □ Please spe	cify the packag	ing code.(T: Ta	ape&Reel, B:	Bulk)		

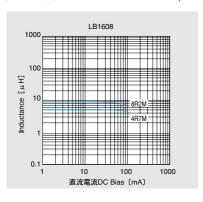
・注:形名の□に 包装記号 ・□ Please specify the packaging code.(T:Tape&Reel, B:Bulk) K公差品 い LBC2518TYPE

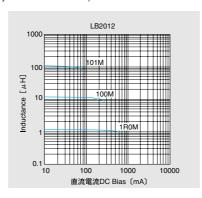
LD02010111 L							
形名	公称 インダクタンス	インダクタンス 許容差	Q 値	数 Self-resonant	直流抵抗 DC Resistance	電流 Rated current	数
Ordering code	Inductance (µH)	Inductance Tolerance	Typical Value	frequency (MHz) min.	(Ω) (±30%)	(mA) max.	Measuring frequency (MHz)
LBC2518□1R0M	1.0			100	0.08	775	
LBC2518□1R5M	1.5			80	0.11	660	
LBC2518□2R2M	2.2			68	0.13	600	7.96
LBC2518□3R3M	3.3			54	0.16	500	7.50
LBC2518□4R7M	4.7			41	0.20	430	
LBC2518□6R8M	6.8			38	0.30	360	
LBC2518□100M	10			30	0.36	300	
LBC2518□150M	15			23	0.65	250	
LBC2518□220M	22	±20%	5	19	0.77	210	2.52
LBC2518□330M	33	±20%	5	15	1.50	170	2.52
LBC2518□470M	47			12	1.90	150	
LBC2518□680M	68			9.5	2.80	120	
LBC2518□101M	100			9.0	3.70	100	
LBC2518□151M	150			7.0	6.10	85	
LBC2518□221M	220			5.5	8.40	70	0.796
LBC2518□331M	330			4.5	12.3	60	3.750
LBC2518□471M	470			3.5	22.0	45	
LBC2518□681M	680			3.0	28.0	35	

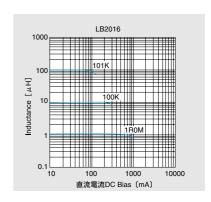
[・]注:形名の口に 包装記号

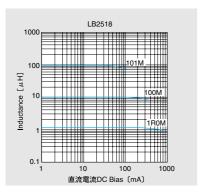
^{· ☐} Please specify the packaging code.(T: Tape&Reel, B: Bulk) **TAIYO YUDEN**

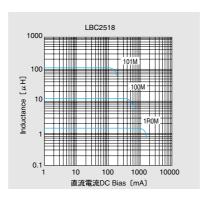
直流 特性例 DC Bias characteristics (Measured by HP4285A+42841A)



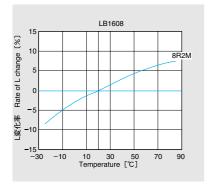


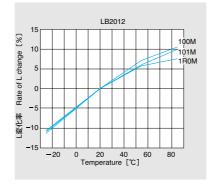


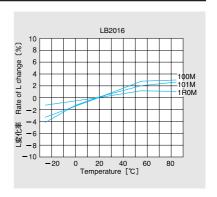


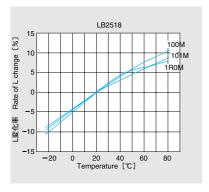


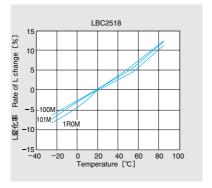
特性例 Temperature characteristics (Measured by HP4285A)











Stages	Precautions	Technical considerations
1.Circuit Design	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	
2.PCB Design	Sales Department in advance. Land pattern design 1.Please contact any of our offices for a land pattern, and refer to a recommended land pattern of specifications.	
3.Considerations for automatic placement	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.	When installing products, care should be taken not to apply distortion stress as it n deform the products.
4.Soldering	Wave soldering 1.Please refer to the specifications in the catalog for a wave soldering. Reflow soldering 1.Please contact any of our offices for a reflow soldering, and	1.If products are used beyond the range of the recommended conditions, heat stres
	refer to the recommended condition specified. 2.LER012 Type,LB Type Reflow solderring only. Lead free soldering 1.When using products with lead free soldering, we request to use them after confirming of adhesion, temperature of resistance to soldering heat, etc. sufficiently. Recommended conditions for using a soldering iron	may deform the products, and consequently degrade the reliability of the products.
	Put the soldering iron on the land-pattern. Soldering iron's temperature - Below 350 Duration - 3 seconds or less The soldering iron should not directly touch the inductor.	
5.Cleaning	Cleaning conditions LB Type 1. Washing by supersonic waves shall be avoided.	LB Type 1.If washing by supersonic waves, supersonic waves may cause broken products.
5.Handling	Handling 1.Keep the inductors away from all magnets and magnetic objects.	There is a case that a characteristic varies with magnetic influence.
	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.Planning pattern configurations and the position of products should be care performed to minimize stress.
	Please do not give the inductors any excessive mechanical shocks.	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	Under a high temperature and humidity environment, problems such as redused solderability caused by oxidation of terminal electrodes and deteriorated of taping/packaging materials may take place.
	Humidity Below 70% RH The ambient temperature must be kept below 30 Even under ideal storage conditions, solderability of products electrodes may decrease as time passes. For this reason, LE type inductors should be used within one year from the time of delivery.	
	LER type, LB type Please should be used within 6 months from the time of delivery. LE type In case of storage over 6 months, solderability shall be	

RELIABILITY DATA 1/8

						Specifie	ed Value						
Item	LER012 LER015	LEM2520	LEMC2520	LEMF2520	LEMC3225	LEMF3225	LB2518	LB2016	LB2012	LB1608	LBC2518	LBH1608	Test Methods and Remarks
1.Operating tem-	-25~+85°C	-40~+85℃					-25~+85°C						
perature Range	40 1059						05 1050						
2.Storage	-40~+85°	U					-25~+85°C						
3.Rated Voltage	Within the	e specified	tolerance										The maximum DC value having inductance decrease within 10% and temperature increas within 20°C by the application of DC bias. LBH1608 LEM Series 5N6~R10: The maximum DC value having temperature increas within 20°C by the application of DC
													bias.
4.Inductance		e specified										12, 19	LER LEM Series 5N6~R10 Measuring equipment Impedance analyzer (HP4291A or its equivalent) Measuring frequency Specified frequency LER LEM Series R12~221 Measuring equipment LCR Meter (HP4285A 42851A or its equivalent) Measuring frequency Specified frequency LB LBC Series Measuring equipment LCR Mater (HP4285A or its equivalent) LBH1608 Series Measuring equipment Impedance analyzer (HP4291A or its equivalent)
5.Q	Within the	e specified	tolerance									12~18 (at 100MHz) min	LER LEM Series 5N6~R10 Measuring equipment Impedance analyzer (HP4291A or its equivalent) Measuring frequency Specified frequency LER LEM Series R12~221 Measuring equipment LCR Meter (HP4285A 42851A or its equivalent) Measuring frequency Specified frequency LB LBC Series Measuring equipment LCR Mater (HP4285A or its equivalent) LBH1608 Series Measuring equipment Impedance analyzer (HP4291A or its equivalent)
6.DC Resisitance	Within the	e specified	tolerance										LER LEM LB LBC LBH Series Measuring equipment low ohmmeter (A&D AD5812 or its equivalent)

						Specifie	ed Value							
Item	LER012 LER015	LEM2520	LEMC2520	LEMF2520	LEMC3225	LEMF3225	LB2518	LB2016	LB2012	LB1608	LBC2518	LBH1608		Test Methods and Remarks
7. Self-Resonant Frequency	Within the	a specified	lolerance										5N6~R Measur LER L R12~ Measuri LEM252 Measuri LB LB Measuri	ing equipment Network analyzer (HP8720B or its equivalent) EM Series (Exclude LEM2520) ng equipment Impeadnce nanlyzer (HP4291A or its equivalent)
8.Temperature Characteristic	△L/L W	Vithin±5%		△UL→ Within ±10%	△L/L→ Within ±5%	△L/L→With	in±15%		∆L/L→With	in±15%		△L/L→ Within±5% △L/L→ Within±0.5nH under 8.2nH	in step	de CM03MS series
9.Rasistance to Flexure of Substrate 10.Body Stregght		down or da											: 3 2 Test su Accodir	mm (LER012, LER015, LBC, LB) mm (LEM2520, LEMC2520, LEMF 520, LEMC3225, LEMF3225) postrate: Printed board g to JIS C0051 Pressig jig Thickness LB1608 LB1608 Others 1.0mm Board 45±2mm 45±2mm
11.Self Resonant		/ithin—10%											Applide Duration LB·LB LEM252 LEMC3 Applide Duration LB1608 Applide Duration Measur current	20 LEMC2520 LEMF2520 225 LEMF3225 forde 10N n 10sec.

						Specifie	ed Value						
Item	LER012 LER015	LEM2520	LEMC2520	LEMF2520	LEMC3225	LEMF3225	LB2518	LB2016	LB2012	LB1608	LBC2518	LBH1608	Test Methods and Remarks
12.Adhesion of terminal electrode	Shall not PC board		No detach	nment of el	ectrode		Shall not	come off P	C board.				LER012 · LER015 Applied force 15N Duration 5 sec. Test substrate Printed board LB · LBC · LBH LEM2520 · LEMC2520 · LEMF2520 · LEMC3225 · LEMF3225 Applied force 10N to X and Y directions Duration 5 sec. Test substrate Printed board
13.Resistance to vibration	△UL Within±5% Q R12~1R0 25min. 1R2~3R3 20min. △L/L Within±5% Q R12~100 30min. 120~220 20min.		Vithin±5% icant abnoi	rmality in a	ppearance		rithin±10% cant abnom	nality in appe	earance.				LER LEM LB·LBC According to JIS C5102 clause 8.2. Vibration type Directions 2 hrs each in X, Y and Z directions. Total 6 hrs Frequency range 10 to 55 to 10 Hz (1min.) Amplitude 1.5mm Mounting method Soldering onto printed board (* Excluding 5N6-R10 LE Series) Recovery At least 1 hr of recovery under the standard condition after the test, followed by the measurement within 2 hrs.

						C:#:-	al Malua						
						Specifie	ed Value						-
Item	LER012 LER015	LEM2520	LEMC2520	LEMF2520	LEMC3225	LEMF3225	LB2518	LB2016	LB2012	LB1608	LBC2518	LBH1608	Test Methods and Remarks
14.Drop test	No significant	△L/L Wi	ithin±5%			△L/L							LER·LEM
	abnormality	No signific	cant abnorr	nality in ap)-	Within±10%							LER012 · LER015
	in appear-	pearance.				No significant							Drop test
	ance.					abnormality							Impact material concreta or vinyl tile
						in appear-							Height 1m
						ance.							Total number of drops 10 times
													LEM2520 · LEMC2520 · LEMF2520 ·
													LEMC3225 · LEMF3225
													Acceleration 980m/sec ²
													Duration 6msec
													Number of times 6 sides × 3 times
													Mounting method Soldering onto printed board
													(* Excluding 10N~R10)
													Recovery At least 1 hr of recovery under
												1	the standard condition after the
15.Solderability	At least 9	0% of elect	trode										test, followed by the measure-
													ment within 2 hrs.
													LER·LEM
													Solder temperature 230±5℃
													Duration 2±0.5sec. (LER012 · LER015)
													5±0.5sec. (LEM2520 •
													LEMC2520 · LEMF2520 ·
													LEMC3225 • LEMF3225)
													Fiux Methanol solution with 25% of colophony
													LB·LBH
													Solder temperature 230±5℃
													Duration 5±0.5sec
													Fiux Methanol solution with 25% of colophony
													эзэрлопу

						Specifie	ed Value						
Item	LER012 LER015	LEM2520	LEMC2520	LEMF2520	LEMC3225	LEMF3225	LB2518	LB2016	LB2012	LB1608	LBC2518	LBH1608	Test Methods and Remarks
16.Resisitance to soldering heat	No signif	icant abnor	mality in ap	ppearance									Conduct following wave soldering twice. (LER012) 300 280 280 240 220 301 302 240 240 2520 303 304 305 260 260 260 260 260 260 260 260 260 260
17.Resisitance to soolvent	No signif	icant abnor	mality in ap	pearance.									LB·LBH 3 times of reflow oven at 220 ± 5°C for 40sec.with peak temperature at 235± 5°C for 5sec. Solvent temperature Room temperature Type of solvent Chlorocarbon type (LEM2520·LEMC2520· LEMC3225) Isopropyl alcohol (LEMF2520·LEMF3225· LB·LBC) Cleaning conditions Output 20mW/cm³ Frequency 28kHz Duration 1 min Conduct ultrasonic cleaning. (LEM2520·LEMC 2520·LEMC3225) 90s. Immersion and cleaning. (LEM72520·LEMF 3225·LB·LBC)

						Specifie	d Value									
Item	LER012 LER015	LEM2520	LEMC2520	LEMF2520	LEMC3225	LEMF3225	LB2518	LB2016	LB2012	LB1608	LBC2518	LBH1608		Test Metho	ods and Rema	rks
18.Resisitance to	ΔL/L	ΔL/L	△L/L W	/ithin±10%								∆L/L	Conditio	ons for 1cy	cle	
solvent	Within±10%	Within±10%										Within±5%		nperature(°C)	Temperature(°C)	Duration(min)
	Q	Q										∆L/L	1	-25	-40	30
	5N6~18N	10N 10min.										within±0.5nH	2	+85	+85	30
	10min.	12N~33N										under				
	22N~R10	15min.										8.2 H	Tempera	ature for	LER012 · LE	R015
	15min.	39N~R10										△Q/Q	Tempera	ature for		
	R12~1R0	20min.										within±20%	LEM25	20 · LEMC	2520 · LEMF2	2520 •
	25min.	R12~4R7										△Q/Q	LEMC3	225 · LEM	F3225	
	1R2~3R3	30min.										within	Numbe	r of cycle	100 cycle	
	20min.	5R6~330										±5 under	Recover	ry At least	1 hr of recove	ry the stan-
		25min.										8.2 H		dard co	ndition after t	ne removal
	ΔL/L	390~820												from te	st chamber, f	ollowed by
	Within±10%	20min.												measu	rement within	2 hrs.
	Q	101 15min.														
	10N~18N												LB · LB	C·LBH		
	10min.												-40~+	85°C, mianta	ain times 30mir	.,100 cycle
	22N~R10												Recove	ry At leas	st 1 hr of reco	very under
	15min.													the sta	ndard condition	on after the
	R12~100													test, fo	llowed by the	measure-
	30min.													ment v	vithin 2 hrs.	
	120~220															
	20min.															
19.Damp heat	ΔL/L	ΔL/L	△L/L W	/ithin±10%								△L/L	Temper	ature 60	±2°C	
	Within±10%	Within±10%										Within±5%	Humidit	y 90∼95	%RH	
	Q	Q										△L/L	Duration	n 1000 hr	S	
	5R6~18N	10N 10min.										within±0.5nH	Recover	ry At least	1 hr of recove	ry the stan-
	10min.	12N~33N										under		dard co	ndition after t	ne removal
	22N~R10	15min.										8.2 H		from te	st chamber, f	ollowed by
	15min.	39N~R10										△Q/Q		measu	rement within	2 hrs.
	R12~1R0	20min.										Within±20%				
	25min.	R12~4R7										△Q/Q				
	1R2~3R3	30min.										within				
	20min.	5R6~330										±5 under				
		25min.										8.2 H				
	△L/L	390~820														
	Within±10%	20min.														
	Q	101 15min.														
	10N~18N															
	10min.															
	22N~R10															
	15min.															
	R12~100 30min.															
	120~220															

						Specifie	d Value						
Item	LER012 LER015	LEM2520	LEMC2520	LEMF2520	LEMC3225	LEMF3225	LB2518	LB2016	LB2012	LB1608	LBC2518	LBH1608	Test Methods and Remarks
20.Loading under damp heat	△L/L Within±10% Q R12~1R0 25min. 1R2~3R3 20min. △L/L Within±10% Q R12~100 30min. 120~220 20min.	△L/L Within±10% Q R12~4R7 30min. 5R6~330 25min. 390~820 20min. 101 15min.	AL/L W	ithin±10%									LER · LEM · LB · LBC Temperature 60±2°C (Excluding nH range) Humidity 90~95%RH Duration 1000 hrs Applied current Rated current Recovery At least 1 hr of recovery the standard condition after the removal from test chamber, followed by measurement within 2 hrs.
21.Hirh temperaturte life test	△L/L Within±10% Q 5R6~18N 10min. 22N~R10 15min. R12~1R0 25min. 1R2~3R3 20min. △L/L Within±10% Q 10N~18N 10min. 22N~R10 15min. R12~100 30min. 120~220 20min.	△L/L Within±10% Q 10N 10min. 12N~33N 15min. 39N~R10 20min. R12~4R7 30min. 5R6~330 25min. 390~820 20min. 101 15min.		ithin±10%									LER · LEM Temperature 85±2°C Duration 1000 hrs Recovery At least 1 hr of recovery the standard condition after the removal from test chamber, followed by measurement within 2 hrs.
22.Loading at high temperature	△L/L Writin±10% Q R12~1R0 25min. 1R2~3R3 20min. △L/L Writin±10% Q R12~100 30min. 120~220 20min.						ΔL/L W	ithin±10%					LER · LB · LBC Temperature 85±2°C (Excluding nH range) Duration 1000 hrs Applied current Rated current Recovery At least 1 hr of recovery the standard condition after the removal from test chamber, followed by measurement within 2 hrs.

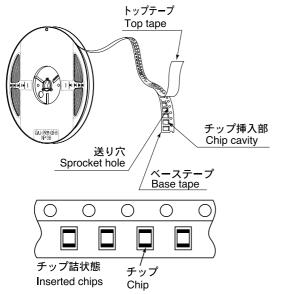
	Specified Value															
Item	LER012 LER015	LEM2520	LEMC2520	LEMF2520	LEMC3225	LEMF3225	LB2518	LB2016	LB2012	LB1608	LBC2518	LBH1608	Test Methods and Remarks			
23.Low temperature	ΔL/L	ΔL/L	△L/L \	∟ Vithin±10%	<u> </u>							△L/L	LER·LEN	1 · LB · LBC · LBH		
life test	Within±10%	Within±10%										Within±5%	Temperate	ure −40±2°C		
	Q	Q										∆L/L	Duration	1000 hrs		
	5R6~18N	10N 10min.										within±0.5nH	Recovery	At least 1 hr of recovery the stan-		
	10min.	12N~33N										under		dard condition after the removal		
	22N~R10	15min.										8.2 H		from test chamber, followed by		
	15min.	39N~R10										△Q/Q		measurement within 2 hrs.		
	R12~1R0	20min.										Within±20%				
	25min.	R12~4R7										△Q/Q				
	1R2~3R3	30min.										within				
	20min.	5R6~330										±5 under				
		25min.										8.2 H				
	ΔL/L	390~820														
	±10%	20min.														
	Q	101 15min.														
	10N~18N															
	10min.															
	22N~R10															
	15min.															
	R12~100															
	30min.															
	120~220															
	20min.						a									
24.Standard condition			n" referred					d test co								
			ure, 45 to 8				'	l,Tempera								
			ure.When t s In order					of relative h g measurem								
			ted under d	•				ate, the test								
			106kPa of													
			are condu				tenterature, 65±5% relative humidity. Inductance is in accordance with our measured value.									
	tion"															

①標準数 Standard Quantity

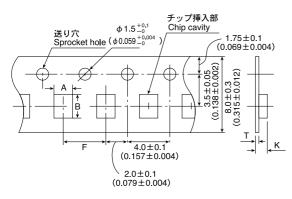
形式	標準数 Standard Quantity ^[pcs]							
Туре		テーピング						
	Bulk / Bag	Tape&Reel						
LB2518 / LBC2518	2000	2000						
LB2016	2000	2000						
LB2012	3000	3000						
LBH1608 / LB1608	4000	4000						

②テーピング Tape material

エンボステープ Embossed tape 紙テープ(LBH1608) Card board carrier tape(LBH1608)



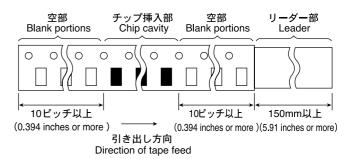
③テーピング寸法 Taping Dimensions



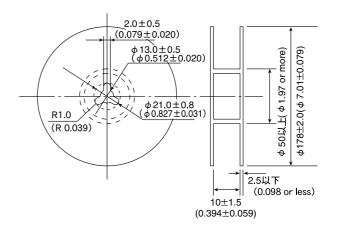
形式	チップ		ピッチ	テープ		
Type	Chip C	Cavity	Insertion Pitch	Tape Thickness		
Туре	Α	В	F	K	Т	
LB2518	2.15±0.1	2.7±0.1	4.0±0.1	2.1	0.3	
LBC2518	(0.085 ± 0.004)	(0.107±0.004)	(0.157±0.004)	(0.083)	(0.012)	
LB2016	1.9±0.1	2.2±0.1	4.0±0.1	2.15	0.3	
LB2010	(0.075±0.004)	(0.087±0.004)	(0.157±0.004)	(0.085)	(0.012)	
LB2012	1.5±0.2	2.3±0.2	4.0±0.1	2.0	0.3	
LB2012	(0.059 ± 0.008)	(0.091±0.008)	(0.157±0.004)	(0.079)	(0.012)	
LBH1608	1.0±0.2	1.8±0.2	4.0±0.1	1.1max	1.1max	
LB1608	(0.059 ± 0.008)	(0.091±0.008)	(0.157±0.004)	(0.079)	(0.012)	

Unit: mm (inch)

④リーダ / Leader and Blank Portion



⑤リール寸法 Reel Size



⑥ ップテープ Top Tape Strength

ップテープの 、 図 方向にて0.2 0.7N な The top tape requires a peel-off force of 0.2 to 0.7N in the direction of the arrow as illustrated below.

