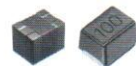


WIRE-WOUND CHIP INDUCTORS FOR SIGNAL LINES (LB SERIES M TYPE / LE SERIES M TYPE)



LB: REFLOW LE: WAVE REFLOW

FEATURES

- **LBM2016 Series**
LBM2016-Series which are the wound chip inductors for signal line propose Down sizing with High Q and narrow tolerance.
- **LEM2520 Series**
A high-quality inductor that is simple to mass-produce and conforms to the same production process and basic construction as an axial lead type inductor.

APPLICATIONS

- LBM series are suitable for the analog signal line of DSC, DVC, HDD, LCD-TV, game equipments, STB, various audio-visual equipments, various communication equipments and etc..

OPERATING TEMP.

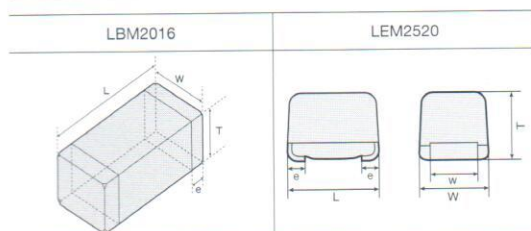
- **LBM2016 Series**
- 40 ~ 105°C (Including-self-generated heat)

ORDERING CODE

L	B	M	2	0	1	6	T	1	0	0	J	△
①			②		③		④		⑤		⑥	
① Type			② External Dimensions (mm)		③ Packaging		④ Nominal Inductance (μH)		⑤ Inductance Tolerances		⑥ Internal code	
LBM	Wound chip inductor for signal line		2016	2.0×1.6	T	Tape & Reel		example		J	±5%	
LEM	Wound chip inductor for signal line		2520	2.5×2.0				R12	0.12	K	±10%	
								1R0	1.00			
								100	10.0			
								101	100			
※R=decimal point												

※R=decimal point

EXTERNAL DIMENSIONS/STANDARD QUANTITY



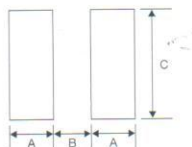
Type	L	W	T	e	W	Standard Quantity [pcs]	
						Paper Tape	Embossed Tape
LBM2016	2.0±0.2 (0.08±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.2 (0.02±0.008)		—	2000
LEM2520	2.5±0.2 (0.098±0.008)	2.0±0.2 (0.079±0.008)	1.8±0.2 (0.071±0.008)	0.45 (0.018)	1.4±0.1 (0.055±0.004)		

Unit : mm (inch)

Recommended Land Patterns

Surface Mounting

- Mounting and soldering conditions should be checked beforehand.
- Applicable soldering process to those products is reflow soldering only. (LB only)
- Recommended Land Patterns



Unit : mm			
TYPE	A	B	C
LBM2016	0.6	1.0	1.8
LEM2520	0.9	1.5	1.5

AVAILABLE INDUCTANCE RANGE

Range	Type		Type	
	LBM2016		LEM2520	
Ordinary type Inductance [μH]	Idc [mA]	Rdc ±30% [Ω]	Idc [mA]	Rdc max [Ω]
	0.12	610 0.13	520 0.37	
	1.0	385 0.38	245 1.10	
	10	215 1.20	155 3.50	
	100	80 8.00	60 21.00	
	100 μH		100 μH	

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PART NUMBERS

LBM2016 TYPE

Ordering code		EHS (Environmental Hazardous Substances)	Inductance (μH)	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] min.	Resistance DC (Ω) (±30%)	Rated current [mA] (max.)	Measuring frequency [MHz]
LB M2016TR12J		RoHS	0.12	±5%	30	600	0.13	610	25.2
LB M2016TR15J		RoHS	0.15			550	0.15	570	
LB M2016TR18J		RoHS	0.18			500	0.15	560	
LB M2016TR22J		RoHS	0.22			450	0.20	520	
LB M2016TR27J		RoHS	0.27			425	0.21	510	
LB M2016TR33J		RoHS	0.33			400	0.21	490	
LB M2016TR39J		RoHS	0.39			375	0.26	440	
LB M2016TR47J		RoHS	0.47			350	0.26	430	
LB M2016TR56J		RoHS	0.56			300	0.29	410	
LB M2016TR68J		RoHS	0.68			270	0.32	400	
LB M2016TR82J		RoHS	0.82			250	0.34	390	7.96
LB M2016T1R0J		RoHS	1.0			220	0.38	385	
LB M2016T1R2J		RoHS	1.2			180	0.41	370	
LB M2016T1R5J		RoHS	1.5			135	0.47	350	
LB M2016T1R8J		RoHS	1.8			100	0.48	345	
LB M2016T2R2J		RoHS	2.2			75	0.54	340	
LB M2016T2R7J		RoHS	2.7			55	0.59	310	
LB M2016T3R3J		RoHS	3.3			48	0.68	290	
LB M2016T3R9J		RoHS	3.9			43	0.74	275	
LB M2016T4R7J		RoHS	4.7			40	0.78	270	
LB M2016T5R6J		RoHS	5.6		25	36	0.88	255	2.52
LB M2016T6R8J		RoHS	6.8			33	0.97	240	
LB M2016T8R2J		RoHS	8.2			30	1.10	225	
LB M2016T100J		RoHS	10			27	1.20	215	
LB M2016T120J		RoHS	12			23	1.4	200	
LB M2016T150J		RoHS	15			20	1.5	190	
LB M2016T180J		RoHS	18			18	2.5	150	
LB M2016T220J		RoHS	22			17	2.8	140	
LB M2016T270J		RoHS	27			16	3.2	130	
LB M2016T330J		RoHS	33			15	3.6	125	
LB M2016T390J		RoHS	39	±5%	20	14	3.9	120	0.796
LB M2016T470J		RoHS	47			13	4.1	115	
LB M2016T560J		RoHS	56			12	5.9	95	
LB M2016T680J		RoHS	68			11	7.0	90	
LB M2016T820J		RoHS	82			10	7.7	85	
LB M2016T101J		RoHS	100			9.0	8.0	80	

LEM2520 TYPE

Ordering code		EHS (Environmental Hazardous Substances)	Inductance (μH)	Inductance Tolerance	Q (min.)	Self-resonant frequency [MHz] min.	Resistance DC (Ω) (max.)	Rated current [mA] (max.)	Measuring frequency [MHz]
LEM 2520 TR12K		RoHS	0.12	±10%	30	600	0.37	520	25.2
LEM 2520 TR15K		RoHS	0.15			550	0.42	480	
LEM 2520 TR18K		RoHS	0.18			500	0.46	460	
LEM 2520 TR22K		RoHS	0.22			450	0.52	430	
LEM 2520 TR27K		RoHS	0.27			425	0.56	420	
LEM 2520 TR33K		RoHS	0.33			400	0.60	400	
LEM 2520 TR39K		RoHS	0.39			375	0.65	375	
LEM 2520 TR47K		RoHS	0.47			350	0.68	350	
LEM 2520 TR56K		RoHS	0.56			300	0.75	325	
LEM 2520 TR68K		RoHS	0.68			270	0.85	300	
LEM 2520 TR82K		RoHS	0.82	±5%	25	250	1.00	260	7.96
LEM 2520 T1R0J		RoHS	1.0			220	1.10	245	
LEM 2520 T1R2J		RoHS	1.2			180	1.20	230	
LEM 2520 T1R5J		RoHS	1.5			135	1.30	220	
LEM 2520 T1R8J		RoHS	1.8			100	1.45	210	
LEM 2520 T2R2J		RoHS	2.2			75	1.55	200	
LEM 2520 T2R7J		RoHS	2.7			55	1.70	195	
LEM 2520 T3R3J		RoHS	3.3			48	1.90	185	
LEM 2520 T3R9J		RoHS	3.9			43	2.10	180	
LEM 2520 T4R7J		RoHS	4.7			40	2.30	175	
LEM 2520 T5R6J		RoHS	5.6		20	36	2.50	170	2.52
LEM 2520 T6R8J		RoHS	6.8			33	2.70	165	
LEM 2520 T8R2J		RoHS	8.2			30	3.05	160	
LEM 2520 T100J		RoHS	10			27	3.50	155	
LEM 2520 T120J		RoHS	12			23	3.80	150	
LEM 2520 T150J		RoHS	15			20	4.40	140	
LEM 2520 T180J		RoHS	18			18	4.80	130	
LEM 2520 T220J		RoHS	22			17	5.50	125	
LEM 2520 T270J		RoHS	27			16	6.30	115	
LEM 2520 T330J		RoHS	33			15	7.10	110	
LEM 2520 T390J		RoHS	39	±5%	15	14	9.50	90	0.796
LEM 2520 T470J		RoHS	47			13	11.10	80	
LEM 2520 T560J		RoHS	56			12	12.10	75	
LEM 2520 T680J		RoHS	68			11	16.60	70	
LEM 2520 T820J		RoHS	82			10	19.00	65	
LEM 2520 T101J		RoHS	100			9	21.00	60	

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