

LBS 系列功率电感 LBS Series SMD Power Inductors



特征 FEATURES

- 大电流
- 屏蔽结构
- 适合于表面贴装
- High saturation current
- Magnetic shielded
- SMT type

应用 APPLICATIONS

- 移动通信
- 笔记本电脑
- DC/DC 转换
- Portable communication equipment
- Notebook Computer
- DC/DC converters

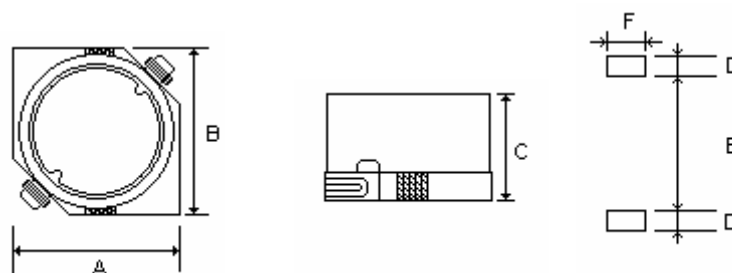
产品规格型号表示方法 ORDERING CODE

LBS	6028	—	150	M	T
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产品代号 Code		规格尺寸 Dimensions (L × W × T) (mm)		电感量(μH) Inductance		误差 Tolerance		包装方式 Packaging Style	
LBS	LBS 系列 功率电感	6028	6.0 × 6.0 × 2.8	150	15	K	±10%	T	Tape&Reel
		7030	7.0 × 7.0 × 3.0	101	100	M	±20%	B	Bulk
		7045	7.0 × 7.0 × 4.5	102	1000				
		10145	10.0 × 10.0 × 4.5						
		12575	12.5 × 12.5 × 7.5						

外形尺寸 Dimensions

单位(Unit) : mm



型号 Part	A	B	C	D	E	F
6028	6.0 ±0.2	6.0 ±0.2	2.8 ±0.2	1.5 ±0.2	4.0 ±0.2	2.2 ±0.2
7030	7.0 ±0.2	7.0 ±0.2	3.0 ±0.2	1.5 ±0.2	4.9 ±0.2	2.2 ±0.2
7045	7.0 ±0.2	7.0 ±0.2	4.5 ±0.3	1.5 ±0.2	4.9 ±0.2	2.2 ±0.2
10145	10.1 ±0.3	10.1 ±0.3	4.5 ±0.3	2.5 ±0.2	5.6 ±0.2	3.2 ±0.2
12575	12.5 ±0.3	12.5 ±0.3	7.5 ±0.3	2.5 ±0.2	8.6 ±0.2	3.2 ±0.2

电性能参数 Electrical Characteristics

LBS6028 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)	Irms (A)
LBS6028-4R7MT	4.7	±20%	1kHz	0.054	1.60	2.50
LBS6028-6R8MT	6.8	±20%	1kHz	0.065	1.50	2.20

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)	Irms (A)
LBS6028-100MT	10	$\pm 20\%$	1kHz	0.115	1.30	1.80
LBS6028-150MT	15	$\pm 20\%$	1kHz	0.150	1.00	1.40
LBS6028-220MT	22	$\pm 20\%$	1kHz	0.205	0.77	1.30
LBS6028-330MT	33	$\pm 20\%$	1kHz	0.300	0.69	1.10
LBS6028-470MT	47	$\pm 20\%$	1kHz	0.410	0.59	0.92
LBS6028-680MT	68	$\pm 20\%$	1kHz	0.575	0.50	0.78
LBS6028-101MT	100	$\pm 20\%$	1kHz	0.950	0.42	0.64

Isat: 加 Isat 时, 电感量下降 $\leq 30\%$ Inductance drop $\leq 30\%$ typ.at rated Isat.

Irms: 加 Irms 时, 器件温度升高 ≤ 25 $T \leq 25$ rise typ. at Irms.

LBS7030 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)
LBS7030-3R3MT	3.3	$\pm 20\%$	1kHz	0.026	1.80
LBS7030-4R7MT	4.7	$\pm 20\%$	1kHz	0.037	1.60
LBS7030-6R8MT	6.8	$\pm 20\%$	1kHz	0.050	1.50
LBS7030-100MT	10	$\pm 20\%$	1kHz	0.082	1.30
LBS7030-150MT	15	$\pm 20\%$	1kHz	0.114	1.00
LBS7030-220MT	22	$\pm 20\%$	1kHz	0.183	0.86
LBS7030-330MT	33	$\pm 20\%$	1kHz	0.235	0.65
LBS7030-470MT	47	$\pm 20\%$	1kHz	0.350	0.57
LBS7030-680MT	68	$\pm 20\%$	1kHz	0.530	0.49
LBS7030-101MT	100	$\pm 20\%$	1kHz	0.843	0.40
LBS7030-151MT	150	$\pm 20\%$	1kHz	1.390	0.32
LBS7030-221MT	220	$\pm 20\%$	1kHz	1.600	0.26
LBS7030-331MT	330	$\pm 20\%$	1kHz	2.820	0.22
LBS7030-471MT	470	$\pm 20\%$	1kHz	3.400	0.18
LBS7030-681MT	680	$\pm 20\%$	1kHz	5.960	0.15
LBS7030-102MT	1000	$\pm 20\%$	1kHz	7.800	0.12

Isat: 加 Isat 时, 电感量下降 $\leq 10\%$ Inductance drop $\leq 10\%$ typ.at rated Isat.

Irms: 加 Irms 时, 器件温度升高 ≤ 20 $T \leq 20$ rise typ. at Irms.

LBS7045 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)	Irms (A)
LBS7045-3R3MT	3.3	$\pm 20\%$	1kHz	0.020	2.50	2.30
LBS7045-4R7MT	4.7	$\pm 20\%$	1kHz	0.030	2.00	2.10
LBS7045-6R8MT	6.8	$\pm 20\%$	1kHz	0.039	1.70	1.74
LBS7045-100MT	10	$\pm 20\%$	1kHz	0.058	1.30	1.78
LBS7045-150MT	15	$\pm 20\%$	1kHz	0.065	1.10	1.53
LBS7045-220MT	22	$\pm 20\%$	1kHz	0.070	0.90	1.34
LBS7045-330MT	33	$\pm 20\%$	1kHz	0.098	0.82	1.09
LBS7045-470MT	47	$\pm 20\%$	1kHz	0.206	0.75	0.92
LBS7045-680MT	68	$\pm 20\%$	1kHz	0.283	0.60	0.77
LBS7045-101MT	100	$\pm 20\%$	1kHz	0.350	0.50	0.65
LBS7045-151MT	150	$\pm 20\%$	1kHz	0.445	0.40	0.55
LBS7045-221MT	220	$\pm 20\%$	1kHz	0.595	0.33	0.45
LBS7045-331MT	330	$\pm 20\%$	1kHz	0.912	0.25	0.37
LBS7045-471MT	470	$\pm 20\%$	1kHz	1.330	0.22	0.31
LBS7045-681MT	680	$\pm 20\%$	1kHz	2.020	0.20	0.27
LBS7045-102MT	1000	$\pm 20\%$	1kHz	3.300	0.14	0.25

Isat: 加 Isat 时, 电感量下降 $\leq 10\%$ Inductance drop $\leq 10\%$ typ.at rated Isat.

Irms: 加 Irms 时, 器件温度升高 ≤ 20 $T \leq 20$ rise typ. at Irms.

LBS10145 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)	Irms (A)
LBS10145-100MT	10	$\pm 20\%$	1kHz	0.054	3.00	2.50
LBS10145-150MT	15	$\pm 20\%$	1kHz	0.067	2.40	2.20
LBS10145-220MT	22	$\pm 20\%$	1kHz	0.073	2.10	1.90
LBS10145-330MT	33	$\pm 20\%$	1kHz	0.135	1.60	1.70
LBS10145-470MT	47	$\pm 20\%$	1kHz	0.175	1.40	1.50
LBS10145-680MT	68	$\pm 20\%$	1kHz	0.249	1.20	1.30
LBS10145-101MT	100	$\pm 20\%$	1kHz	0.460	1.00	1.10
LBS10145-151MT	150	$\pm 20\%$	1kHz	0.606	0.79	0.81
LBS10145-221MT	220	$\pm 20\%$	1kHz	0.787	0.65	0.70
LBS10145-331MT	330	$\pm 20\%$	1kHz	1.350	0.54	0.58
LBS10145-471MT	470	$\pm 20\%$	1kHz	1.800	0.47	0.47
LBS10145-681MT	680	$\pm 20\%$	1kHz	2.790	0.38	0.38
LBS10145-102MT	1000	$\pm 20\%$	1kHz	4.320	0.32	0.29
LBS10145-152MT	1500	$\pm 20\%$	1kHz	5.270	0.22	0.26

Isat: 加 Isat 时, 电感量下降 $\leq 10\%$ Inductance drop $\leq 10\%$ typ.at rated Isat.

Irms: 加 Irms 时, 器件温度升高 ≤ 30 $T \leq 30$ rise typ. at Irms.

LBS12575 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω) Max	Isat (A)
LBS12575-1R2MT	1.2	$\pm 20\%$	1kHz	0.0132	13.0
LBS12575-2R7MT	2.7	$\pm 20\%$	1kHz	0.0156	10.0
LBS12575-3R9MT	3.9	$\pm 20\%$	1kHz	0.0168	9.0
LBS12575-4R7MT	4.7	$\pm 20\%$	1kHz	0.0185	8.4
LBS12575-6R8MT	6.8	$\pm 20\%$	1kHz	0.0192	7.2
LBS12575-100MT	10	$\pm 20\%$	1kHz	0.0228	5.5
LBS12575-120MT	12	$\pm 20\%$	1kHz	0.0276	5.1
LBS12575-150MT	15	$\pm 20\%$	1kHz	0.0322	4.7
LBS12575-220MT	22	$\pm 20\%$	1kHz	0.0396	4.0
LBS12575-330MT	33	$\pm 20\%$	1kHz	0.0580	3.2
LBS12575-470MT	47	$\pm 20\%$	1kHz	0.0690	2.7
LBS12575-680MT	68	$\pm 20\%$	1kHz	0.0934	2.0
LBS12575-101MT	100	$\pm 20\%$	1kHz	0.1500	1.9
LBS12575-151MT	150	$\pm 20\%$	1kHz	0.2100	1.5
LBS12575-221MT	220	$\pm 20\%$	1kHz	0.3096	1.3
LBS12575-331MT	330	$\pm 20\%$	1kHz	0.4080	1.0
LBS12575-471MT	470	$\pm 20\%$	1kHz	0.7200	0.8
LBS12575-681MT	680	$\pm 20\%$	1kHz	1.0200	0.7

Isat: 加 Isat 时, 电感量下降 $\leq 15\%$ Inductance drop $\leq 15\%$ typ.at rated Isat.

Irms: 加 Irms 时, 器件温度升高 ≤ 30 $T \leq 30$ rise typ. at Irms.