

# PS5131

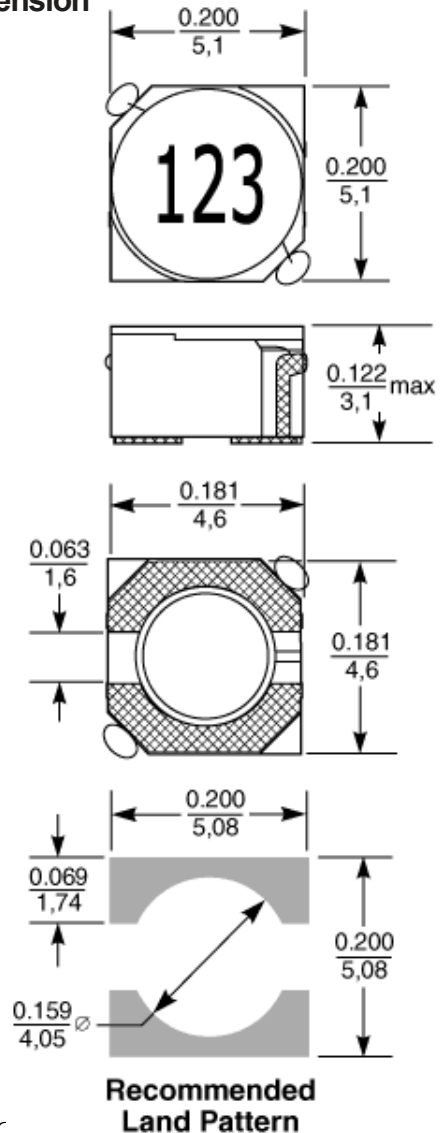


## ◆ 特征 Feature

- 5.1×5.1×3.1mm 小尺寸封装，闭磁式功率电感。  
5.1 × 5.1 mm footprint; 3.1mm high shielded inductors.
- 直流电阻小及极好的定格电流特性。  
Low DCR and excellent current handling.
- 定格电流可达到 2.3 Amps。  
Current rating up to 2.3 Amps.
- 电感值范围：2.2 to 390  $\mu$ H。  
Inductance ratings from 2.2 to 390  $\mu$ H.

## ◆ 外形尺寸 Dimension

型号 Part number	电感量 Inductance	直流电阻 DCR	自谐频率 SRF	饱和电流 Isat	温升电流 Irms
Units	( $\mu$ H) $\pm 20\%$	( $\Omega$ ) max	(MHz) typ	(A) 30% drop	(A) 40°C rise
PS5131-2R2ML_	2.2	0.023	65	2.30	3.30
PS5131-3R3ML_	3.3	0.032	60	1.73	2.90
PS5131-4R7ML_	4.7	0.045	48	1.42	2.50
PS5131-5R6ML_	5.6	0.055	44	1.30	2.30
PS5131-6R8ML_	6.8	0.060	42	1.24	2.16
PS5131-8R2ML_	8.2	0.075	40	1.18	2.00
PS5131-100ML_	10	0.083	38	1.13	1.90
PS5131-120ML_	12	0.100	35	0.94	1.60
PS5131-150ML_	15	0.115	32	0.86	1.50
PS5131-180ML_	18	0.150	26	0.79	1.40
PS5131-220ML_	22	0.160	22	0.70	1.30
PS5131-270ML_	27	0.190	19	0.62	1.20
PS5131-330ML_	33	0.216	18	0.58	1.10
PS5131-390ML_	39	0.290	17	0.55	1.00
PS5131-470ML_	47	0.320	16	0.51	0.95
PS5131-560ML_	56	0.365	15	0.47	0.90
PS5131-680ML_	68	0.480	13	0.42	0.85
PS5131-820ML_	82	0.520	13	0.35	0.80
PS5131-101ML_	100	0.700	12	0.33	0.69
PS5131-121ML_	120	0.800	11	0.30	0.62
PS5131-151ML_	150	1.10	10	0.28	0.58
PS5131-181ML_	180	1.20	9	0.25	0.54
PS5131-221ML_	220	1.40	8	0.23	0.50
PS5131-271ML_	270	1.80	7.5	0.20	0.45
PS5131-331ML_	330	2.10	6.8	0.19	0.42
PS5131-391ML_	390	2.20	5.4	0.16	0.38



※ 饱和电流：电感值下降到标准值的 70% 时的电流值。  
Isat: This indicates the value of DC current when the inductance decreases to 70% of its nominal value.

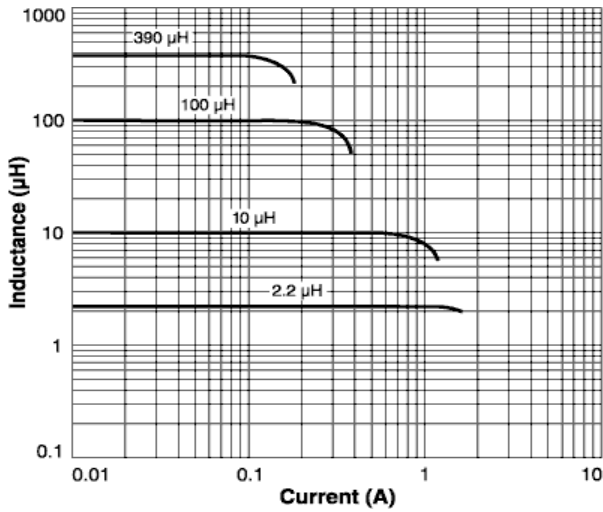
※ 温升电流：线圈温度上升  $\Delta T=40^{\circ}\text{C}$  时的电流值（基准温度  $T_a=20^{\circ}\text{C}$ ）  
Irms: The current when temperature of coil becomes  $\Delta T=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ ,

Dimensions are in  $\frac{\text{inches}}{\text{mm}}$

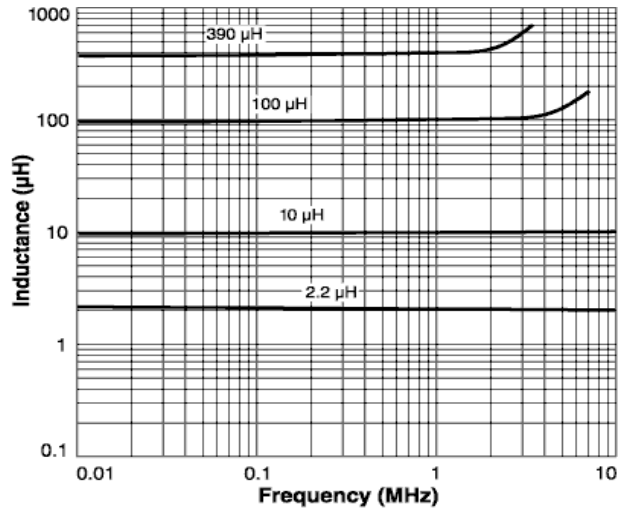
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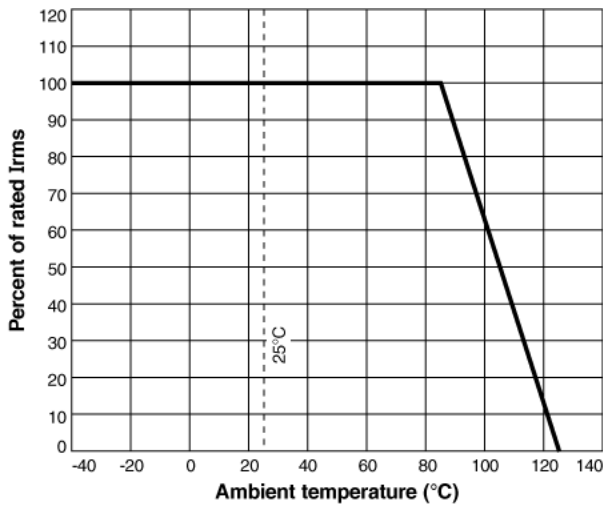
◆ 电感值 vs 电流曲线  
**Typical L vs Current**



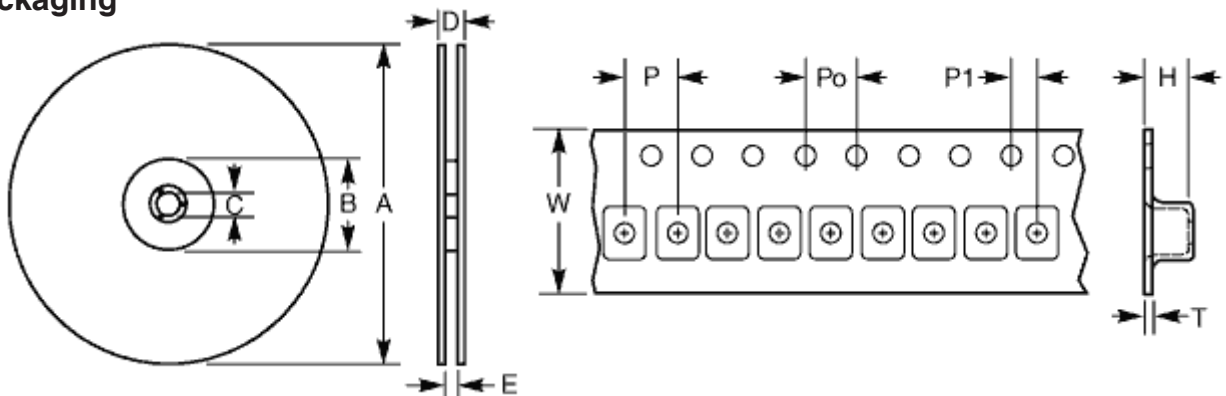
◆ 电感值 vs 频率曲线  
**Typical L vs Frequency**




◆ 电流下降曲线  
**Irms Derating**



◆ 包装方式  
**Packaging**



每盘数量 Parts per reel		卷盘尺寸 Reel dimensions (mm)					卷带尺寸 Tape dimensions (mm)						方向 Orientation
7" (178 mm)	13" (330 mm)	A	B	C	D	E	W	P	Po	P1	H	T	
500	2000	178/330	60/100	13	18,4	12,4	12	8	4	2	3,25	0,35	