

PS4020



◆ 特征 Feature

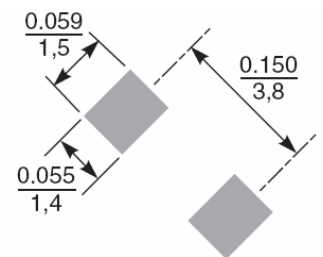
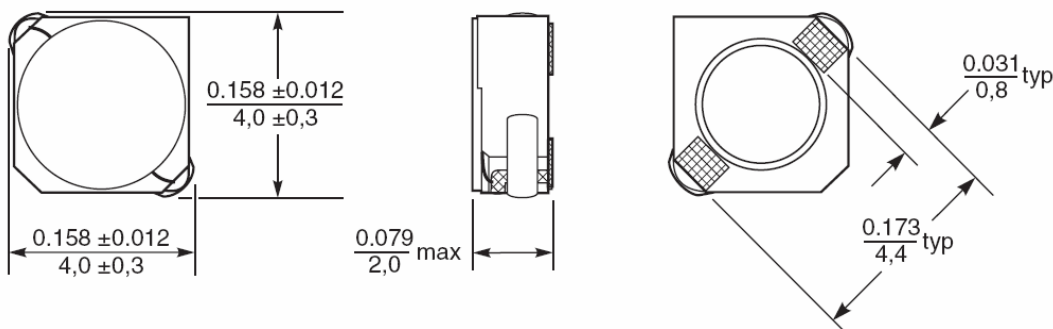
- 4×4×2mm 小尺寸封装，闭磁式功率电感。
4 × 4 mm footprint; 2 mm high shielded inductors.
- 直流电阻小及极好的定格电流特性。
Low DCR and excellent current handling.
- 适用于回流焊 SMT 工艺。
Suitable for reflow soldering.
- 较低磁芯损耗在高频率功率电源应用时。
Low core loss for high frequency power application.

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	(μH) $\pm 20\%$	(Ω) max	(MHz) typ	(A) 30% drop	(A) 40°C rise
PS4020-3R3ML_	3.3	0.085	109.0	1.20	1.60
PS4020-4R7ML_	4.7	0.115	93.0	0.95	1.50
PS4020-5R6ML_	5.6	0.130	85.0	0.89	1.40
PS4020-6R8ML_	6.8	0.175	75.0	0.83	1.30
PS4020-8R2ML_	8.2	0.190	70.0	0.77	1.20
PS4020-100ML_	10	0.210	63.0	0.67	1.15
PS4020-120ML_	12	0.280	55.0	0.60	1.00
PS4020-150ML_	15	0.330	50.0	0.58	0.95
PS4020-180ML_	18	0.360	42.0	0.52	0.85
PS4020-220ML_	22	0.480	38.0	0.49	0.80
PS4020-270ML_	27	0.560	35.0	0.39	0.71
PS4020-330ML_	33	0.620	28.0	0.38	0.67
PS4020-390ML_	39	0.820	30.0	0.36	0.58
PS4020-470ML_	47	0.930	28.0	0.31	0.56
PS4020-560ML_	56	1.200	22.0	0.29	0.47
PS4020-680ML_	68	1.330	18.0	0.26	0.43
PS4020-820ML_	82	1.500	17.0	0.23	0.40
PS4020-101ML_	100	2.100	15.0	0.20	0.36
PS4020-121ML_	120	2.450	13.0	0.18	0.31
PS4020-151ML_	150	2.930	11.0	0.13	0.26

※ 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 $\Delta T=40^\circ\text{C}$. ($T_a=20^\circ\text{C}$)

◆ 外形尺寸 Dimension



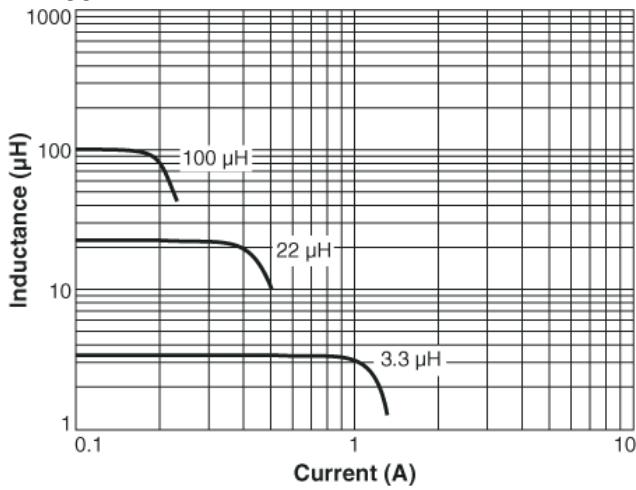
Recommended Land Pattern

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

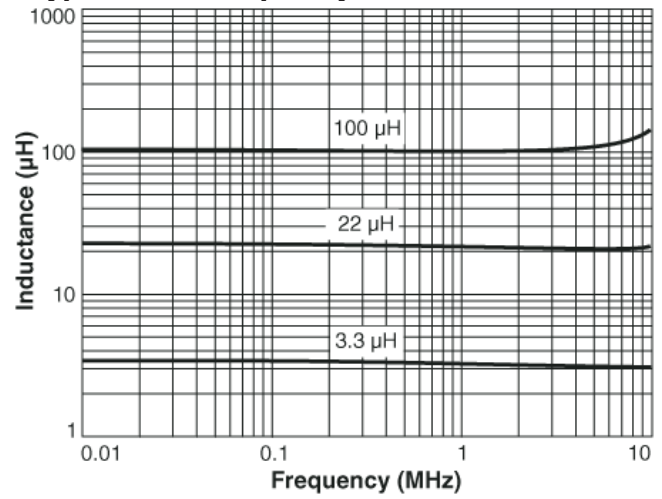
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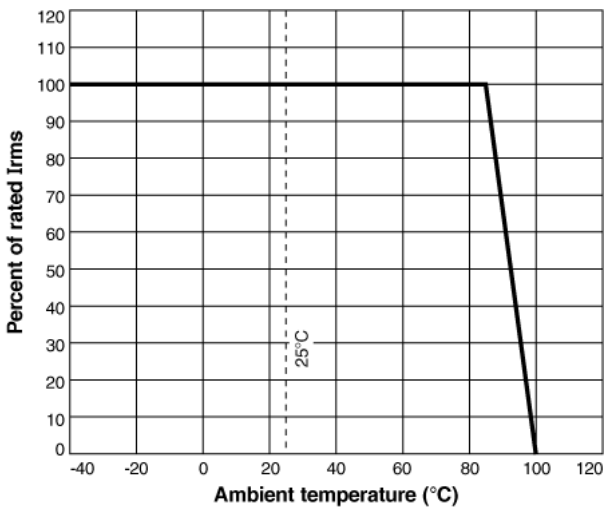
◆ 电感值 vs 电流曲线
Typical L vs Current



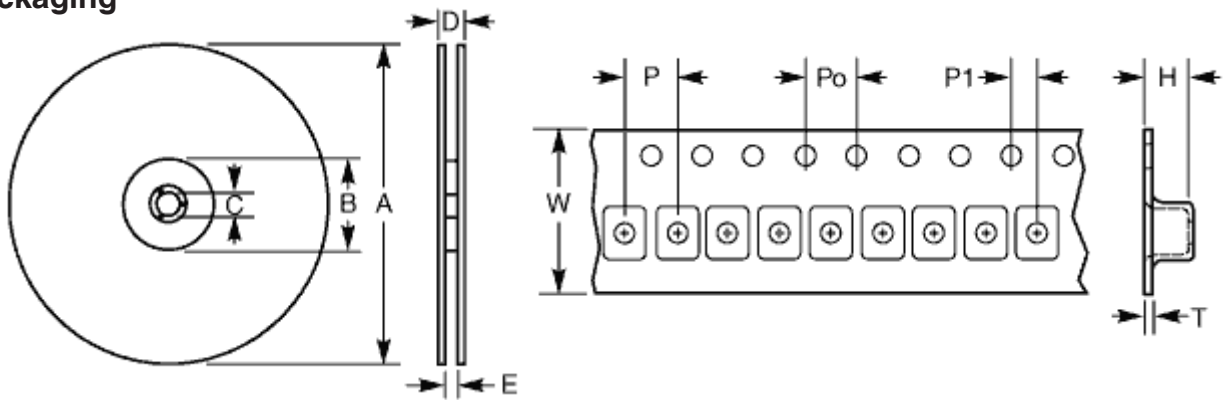
◆ 电感值 vs 频率曲线
Typical L vs Frequency




◆ 电流下降曲线
I_{rms} 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	
1000	3000	178/330	60/100	13	18,4	12,4	12	8	4	2	2,2	0,3	