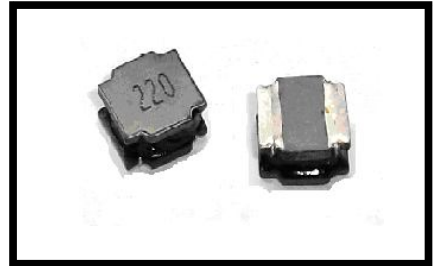


## ■ PRS系列功率電感 PRS SERIES SMD POWER INDUCTORS



### • 特征 FEATURES

- 超薄;
- 頻閉式結構;
- 適合表面貼裝。
- Low profile
- Magnetic open structure
- SMT type

### • 應用APPLICATION:

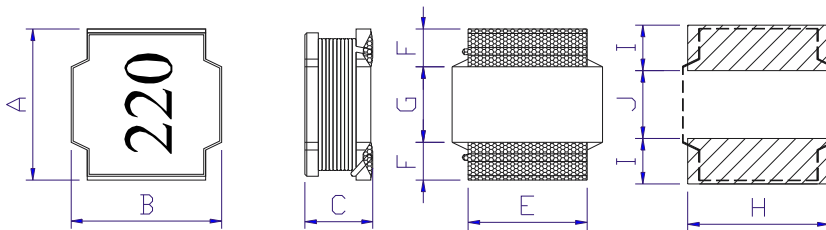
- 手機、PDA、液晶顯示器等小型DC/DC變換器用;  
For small DC/DC converter(cellular Phone,PDA ,LCD display etc.
- DC/DC轉換。DC/DC converters etc.

### • 產品規格型號的表示方法 ORDERING CODE

PRS    8040    —    150    M    T  
①            ②            ③            ④            ⑤

① 產品代號 Product Code		② 規格尺寸(L × W × T) (mm) Dimensions		③ 感量(μH) Inductance		④ 誤差 Tolerance		⑤ 包裝方式 Packaging Style	
PRS	PDR系列 功率電感	3015	3.0×3.0×1.5	150	15	K	±10%	T	卷帶盤裝 Tape & Reel
		4018	4.0×4.0×1.8	101	100	M	±20%	B	散裝 Bulk
		6020	6.0×6.0×2.0	102	1000				
		6045	6.0×6.0×4.5						
		8040	8.0×8.0×4.0						

### • 外形尺寸 SHAPE AND DIMENSIONS



Land Pattern

單位(Unit): mm

型號Part	A	B	C	E (TYP.)	F (TYP.)	G (TYP.)	H (TYP.)	I (TYP.)	J (TYP.)
PRS3015	3.0±0.2	3.0±0.2	1.5MAX	3.0	0.9	1.2	3.2	1.0	1.2
PRS4018	4.0±0.2	4.0±0.2	1.8MAX	3.4	1.2	1.6	3.6	1.4	1.6
PRS6020	6.0±0.2	6.0±0.2	2.0MAX	5.0	1.5	3.0	5.7	1.9	2.6
PRS6045	6.0±0.2	6.0±0.2	4.5MAX	5.0	1.5	3.0	5.7	1.9	2.6
PRS8040	8.0±0.2	8.0±0.2	4.0±0.3	6.4	2.0	4.0	7.5	2.4	3.6

■ 電性能參數 ELECTRICAL CHARACTERISTICS

PRS3015 Series

型號 Part Number	電感量 L (μH)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR(Ω)	Isat(A)
PRS3015-1R0NT	1.0	±30%	100kHz	0.030±30%	2.10
PRS3015-1R5NT	1.5	±30%	100kHz	0.040±30%	1.80
PRS3015-2R2NT	2.2	±30%	100kHz	0.060±30%	1.48
PRS3015-3R3MT	3.3	±20%	100kHz	0.080±30%	1.21
PRS3015-4R7MT	4.7	±20%	100kHz	0.120±30%	1.02
PRS3015-6R8MT	6.8	±20%	100kHz	0.160±30%	0.87
PRS3015-100MT	10	±20%	100kHz	0.230±30%	0.70
PRS3015-150MT	15	±20%	100kHz	0.360±30%	0.56
PRS3015-220MT	22	±20%	100kHz	0.520±30%	0.47
PRS3015-330MT	33	±20%	100kHz	0.840±30%	0.39
PRS3015-470MT	47	±20%	100kHz	1.340±30%	0.32

PRS4018 Series

型號 Part Number	電感量 L (μH)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR(Ω)	Isat(A)
PRS4018-1R0NT	1.0	±30%	100kHz	0.030±30%	4.00
PRS4018-2R2NT	2.2	±30%	100kHz	0.060±30%	2.70
PRS4018-3R3MT	3.3	±20%	100kHz	0.070±30%	2.00
PRS4018-4R7MT	4.7	±20%	100kHz	0.090±30%	1.70
PRS4018-6R8MT	6.8	±20%	100kHz	0.110±30%	1.45
PRS4018-100MT	10	±20%	100kHz	0.180±30%	1.20
PRS4018-150MT	15	±20%	100kHz	0.250±30%	0.94
PRS4018-220MT	22	±20%	100kHz	0.360±30%	0.80
PRS4018-330MT	33	±20%	100kHz	0.530±30%	0.65
PRS4018-470MT	47	±20%	100kHz	0.650±30%	0.57
PRS4018-680MT	68	±20%	100kHz	1.000±30%	0.47
PRS4018-101MT	100	±20%	100kHz	1.500±30%	0.40
PRS4018-151MT	150	±20%	100kHz	2.500±30%	0.31
PRS4018-221MT	220	±20%	100kHz	4.000±30%	0.27

PRS6020 Series

型號 Part Number	電感量 L (μH)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR(Ω)	Isat(A)
PRS6020-1R5NT	1.5	±30%	100kHz	0.026±30%	4.00
PRS6020-2R2NT	2.2	±30%	100kHz	0.034±30%	3.20
PRS6020-3R3MT	3.3	±20%	100kHz	0.040±30%	2.80
PRS6020-4R7MT	4.7	±20%	100kHz	0.058±30%	2.40
PRS6020-6R8MT	6.8	±20%	100kHz	0.085±30%	2.00
PRS6020-100MT	10	±20%	100kHz	0.125±30%	1.70
PRS6020-220MT	22	±20%	100kHz	0.290±30%	1.05

Isat: 飽和電流，加Isat時，電感值相對初始值下降 ≤ 30%

Isat: Saturation Current, the current when the inductance becomes 30% lower than its initial value.

## PRS6045 Series

型號 Part Number	電感量 L (μH)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR(Ω)	Isat(A)
PRS6045-4R7MT	4.7	±20%	100kHz	0.031±30%	4.00
PRS6045-6R8MT	6.8	±20%	100kHz	0.038±30%	3.80
PRS6045-100MT	10	±20%	100kHz	0.047±30%	3.00
PRS6045-150MT	15	±20%	100kHz	0.077±30%	2.30
PRS6045-220MT	22	±20%	100kHz	0.115±30%	1.90
PRS6045-330MT	33	±20%	100kHz	0.145±30%	1.50
PRS6045-470MT	47	±20%	100kHz	0.220±30%	1.30
PRS6045-680MT	68	±20%	100kHz	0.330±30%	1.00
PRS6045-101MT	100	±20%	100kHz	0.500±30%	0.80

## PRS8040 Series

型號 Part Number	電感量 L (μH)	公差 Tolerance	測試頻率 Test Freq.	直流電阻 DCR(Ω)	Isat(A)
PRS8040-4R7MT	4.7	±20%	100kHz	0.018±30%	4.70
PRS8040-6R8MT	6.8	±20%	100kHz	0.025±30%	4.00
PRS8040-100MT	10	±20%	100kHz	0.034±30%	3.40
PRS8040-150MT	15	±20%	100kHz	0.050±30%	2.70
PRS8040-220MT	22	±20%	100kHz	0.089±30%	2.20
PRS8040-330MT	33	±20%	100kHz	0.100±30%	1.90
PRS8040-470MT	47	±20%	100kHz	0.150±30%	1.50
PRS8040-680MT	68	±20%	100kHz	0.230±30%	1.20
PRS8040-101MT	100	±20%	100kHz	0.290±30%	1.00

Isat: 飽和電流，加Isat時，電感值相對初始值下降 ≤ 30%

Isat: Saturation Current, the current when the inductance becomes 30% lower than its initial value.