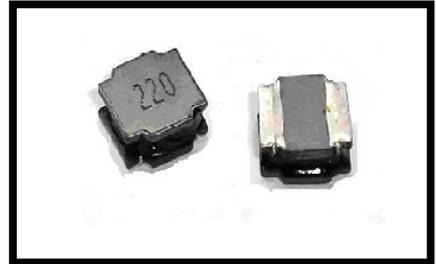


## ■ PRS系列功率電感 PRS SERIES SMD POWER INDUCTORS



### • 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:

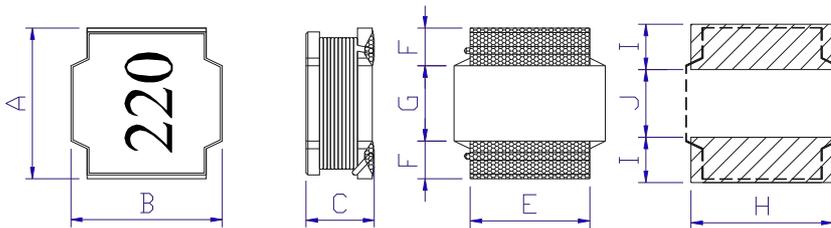
- 手機、PDA、液晶顯示器等小型DC/DC變換器用;  
For small DC/DC converter(cellular Phone,PDA ,LCD display etc.
- DC/DC轉換。DC/DC converters etc.

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

### • 外形尺寸 SHAPE AND DIMENSIONS



Land Pattern

單位(Unit): mm

| 型號Part  | A       | B       | C       | E<br>(TYP.) | F<br>(TYP.) | G<br>(TYP.) | H<br>(TYP.) | I<br>(TYP.) | J<br>(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<br>Part Number | 電感量<br>L (μH) | 公差<br>Tolerance | 測試頻率<br>Test Freq. | 直流電阻<br>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<br>Part Number | 電感量<br>L (μH) | 公差<br>Tolerance | 測試頻率<br>Test Freq. | 直流電阻<br>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<br>Part Number | 電感量<br>L (μH) | 公差<br>Tolerance | 測試頻率<br>Test Freq. | 直流電阻<br>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<br>Part Number | 電感量<br>L (μH) | 公差<br>Tolerance | 測試頻率<br>Test Freq. | 直流電阻<br>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<br>Part Number | 電感量<br>L (μH) | 公差<br>Tolerance | 測試頻率<br>Test Freq. | 直流電阻<br>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.

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