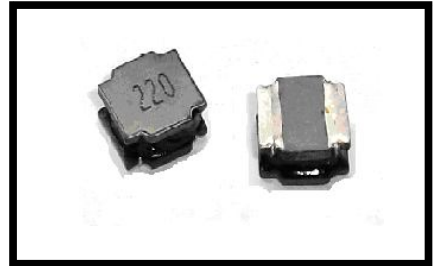


■ PRS系列功率電感 PRS SERIES SMD POWER INDUCTORS



• 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:

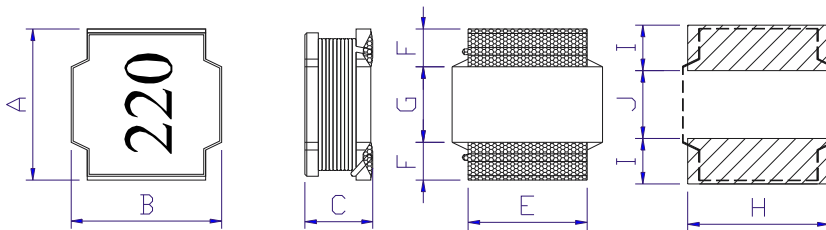
- 手機、PDA、液晶顯示器等小型DC/DC變換器用;
For small DC/DC converter(cellular Phone,PDA ,LCD display etc.
- DC/DC轉換。DC/DC converters etc.

• 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 | | | | | | |
| | | 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 (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.

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