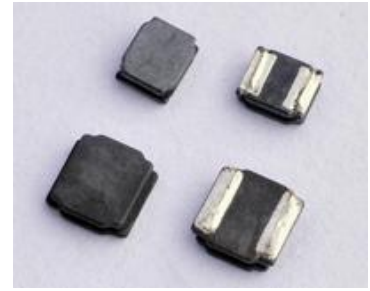




## SMD Power Inductor SCNR Series 贴片功率电感 SCNR 系列

### Features 特点

- Low profile 超薄
- Magnetically shielded structure that ensures the high-density mounting configurations  
高密度封装的磁屏蔽结构
- Flat bottom surface ensures secure, reliable mounting.  
平坦焊面便于安装



### Applications 应用

- Ideally used in Portable telephones, PDA, DSC, DC-DC Converters, etc.  
用于手机、掌上电脑、数字信号控制器，DC-DC转换等。

### Product Identification 产品标识

SCNR 3015 - 3R3 M T

- ①          ②          ③          ④          ⑤

- ① Series name 系列名称
- ② Product dimensions 产品尺寸: 【3015=3.0\*3.0\*1.5mm】
- ③ Inductance Value 电感量: 【R68=0.68 $\mu$ H 3R3=3.3 $\mu$ H 100=10 $\mu$ H】
- ④ Inductance Tolerance 电感量公差: 【M=±20%; N=±30%】
- ⑤ Packing Style: 【T: Taping 编带盘装 B: Bulk 散装】

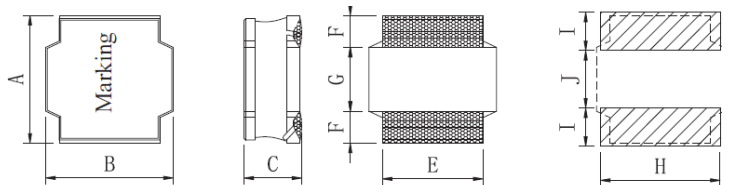
### Shapes And Dimensions 外形及尺寸示意图

SCNR2512



推荐焊盘

SCNR30-80



推荐焊盘

| Series   | Dimensions(mm) |         |        |        |        |        |        |        |        |
|----------|----------------|---------|--------|--------|--------|--------|--------|--------|--------|
|          | A              | B       | C Max. | E Ref. | F Ref. | G Ref. | H Ref. | I Ref. | J Ref. |
| SCNR2512 | 2.5±0.2        | 2.1±0.2 | 1.25   | 2.1    | 0.85   | 0.8    | 2.1    | 0.85   | 0.80   |
| SCNR3015 | 3.0±0.2        | 3.0±0.2 | 1.5    | 2.8    | 0.85   | 1.3    | 3.0    | 0.90   | 1.3    |
| SCNR4018 | 4.0±0.2        | 4.0±0.2 | 1.8    | 3.4    | 1.2    | 1.6    | 3.6    | 1.4    | 1.6    |
| SCNR4026 | 4.0±0.2        | 4.0±0.2 | 2.6    | 3.4    | 1.2    | 1.6    | 3.6    | 1.4    | 1.6    |
| SCNR5020 | 5.0±0.2        | 5.0±0.2 | 2.1    | 4.0    | 1.2    | 2.6    | 4.4    | 1.6    | 2.4    |
| SCNR5045 | 5.0±0.2        | 5.0±0.2 | 4.5    | 4.0    | 1.2    | 2.6    | 4.4    | 1.6    | 2.4    |
| SCNR6020 | 6.0±0.2        | 6.0±0.2 | 2.0    | 5.0    | 1.5    | 3.0    | 5.7    | 1.9    | 2.6    |
| SCNR6028 | 6.0±0.2        | 6.0±0.2 | 2.8    | 5.0    | 1.5    | 3.0    | 5.7    | 1.9    | 2.6    |
| SCNR6045 | 6.0±0.2        | 6.0±0.2 | 4.5    | 5.0    | 1.5    | 3.0    | 5.7    | 1.9    | 2.6    |
| SCNR8040 | 8.0±0.2        | 8.0±0.2 | 4.3    | 6.4    | 2.0    | 4.0    | 7.5    | 2.4    | 3.6    |

**Electrical Characteristics** 电气性能

## SCNR2512 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(MHz) | RDC ( $\Omega$ ) Max. | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|-----------------------|---------|---------|
| SCNR2512-R47NT | 0.47        | 30                  | 1               | 0.061                 | 3.82    | 2.15    |
| SCNR2512-R68NT | 0.68        | 30                  | 1               | 0.074                 | 3.28    | 1.96    |
| SCNR2512-1R0NT | 1.0         | 30                  | 1               | 0.090                 | 2.59    | 1.93    |
| SCNR2512-1R5NT | 1.5         | 30                  | 1               | 0.147                 | 2.24    | 1.40    |
| SCNR2512-2R2MT | 2.2         | 20                  | 1               | 0.216                 | 1.85    | 1.15    |
| SCNR2512-3R3MT | 3.3         | 20                  | 1               | 0.264                 | 1.61    | 1.04    |
| SCNR2512-4R7MT | 4.7         | 20                  | 1               | 0.377                 | 1.12    | 0.84    |
| SCNR2512-5R6MT | 5.6         | 20                  | 1               | 0.538                 | 1.12    | 0.73    |
| SCNR2512-6R8MT | 6.8         | 20                  | 1               | 0.581                 | 0.98    | 0.69    |
| SCNR2512-8R2MT | 8.2         | 20                  | 1               | 0.658                 | 0.98    | 0.65    |
| SCNR2512-100MT | 10          | 20                  | 1               | 0.690                 | 0.79    | 0.62    |
| SCNR2512-150MT | 15          | 20                  | 1               | 1.591                 | 0.68    | 0.42    |
| SCNR2512-220MT | 22          | 20                  | 1               | 1.976                 | 0.53    | 0.38    |

## SCNR3015 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR3015-1R0NT | 1.0         | 30                  | 100             | 0.030 $\pm$ 20%  | 2.32    | 2.35    |
| SCNR3015-1R5NT | 1.5         | 30                  | 100             | 0.040 $\pm$ 20%  | 2.30    | 1.70    |
| SCNR3015-2R2NT | 2.2         | 30                  | 100             | 0.060 $\pm$ 20%  | 1.60    | 1.60    |
| SCNR3015-3R3MT | 3.3         | 20                  | 100             | 0.080 $\pm$ 20%  | 1.32    | 1.36    |
| SCNR3015-4R7MT | 4.7         | 20                  | 100             | 0.120 $\pm$ 20%  | 1.10    | 1.09    |
| SCNR3015-5R6MT | 5.6         | 20                  | 100             | 0.140 $\pm$ 20%  | 0.95    | 0.86    |
| SCNR3015-6R8MT | 6.8         | 20                  | 100             | 0.160 $\pm$ 20%  | 0.87    | 0.85    |
| SCNR3015-8R2MT | 8.2         | 20                  | 100             | 0.220 $\pm$ 20%  | 0.80    | 0.80    |
| SCNR3015-100MT | 10          | 20                  | 100             | 0.230 $\pm$ 20%  | 0.72    | 0.77    |
| SCNR3015-150MT | 15          | 20                  | 100             | 0.360 $\pm$ 20%  | 0.66    | 0.65    |
| SCNR3015-220MT | 22          | 20                  | 100             | 0.520 $\pm$ 20%  | 0.52    | 0.57    |
| SCNR3015-330MT | 33          | 20                  | 100             | 0.840 $\pm$ 20%  | 0.44    | 0.43    |
| SCNR3015-470MT | 47          | 20                  | 100             | 1.340 $\pm$ 20%  | 0.35    | 0.35    |

**Electrical Characteristics** 电气性能

## SCNR4018 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR4018-1R0NT | 1.0         | 30                  | 100             | 0.030 $\pm$ 30%  | 4.30    | 2.00    |
| SCNR4018-1R5NT | 1.5         | 30                  | 100             | 0.040 $\pm$ 30%  | 3.35    | 1.80    |
| SCNR4018-2R2NT | 2.2         | 30                  | 100             | 0.045 $\pm$ 30%  | 2.70    | 1.65    |
| SCNR4018-2R7MT | 2.7         | 20                  | 100             | 0.058 $\pm$ 30%  | 2.30    | 1.45    |
| SCNR4018-3R3MT | 3.3         | 20                  | 100             | 0.070 $\pm$ 30%  | 2.00    | 1.23    |
| SCNR4018-4R7MT | 4.7         | 20                  | 100             | 0.090 $\pm$ 30%  | 1.70    | 1.20    |
| SCNR4018-6R8MT | 6.8         | 20                  | 100             | 0.110 $\pm$ 30%  | 1.45    | 1.06    |
| SCNR4018-8R2MT | 8.2         | 20                  | 100             | 0.160 $\pm$ 30%  | 1.35    | 0.90    |
| SCNR4018-100MT | 10          | 20                  | 100             | 0.180 $\pm$ 30%  | 1.30    | 0.84    |
| SCNR4018-150MT | 15          | 20                  | 100             | 0.250 $\pm$ 30%  | 0.94    | 0.65    |
| SCNR4018-220MT | 22          | 20                  | 100             | 0.360 $\pm$ 30%  | 0.80    | 0.59    |
| SCNR4018-330MT | 33          | 20                  | 100             | 0.530 $\pm$ 30%  | 0.65    | 0.49    |
| SCNR4018-470MT | 47          | 20                  | 100             | 0.650 $\pm$ 30%  | 0.57    | 0.42    |
| SCNR4018-560MT | 56          | 20                  | 100             | 0.900 $\pm$ 30%  | 0.51    | 0.38    |
| SCNR4018-680MT | 68          | 20                  | 100             | 1.000 $\pm$ 30%  | 0.47    | 0.32    |
| SCNR4018-820MT | 82          | 20                  | 100             | 1.300 $\pm$ 30%  | 0.43    | 0.28    |
| SCNR4018-101MT | 100         | 20                  | 100             | 1.500 $\pm$ 30%  | 0.40    | 0.25    |

## SCNR4026 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR4026-1R0NT | 1.0         | 30                  | 100             | 0.017 $\pm$ 30%  | 3.10    | 2.80    |
| SCNR4026-1R5NT | 1.5         | 30                  | 100             | 0.022 $\pm$ 30%  | 2.40    | 2.30    |
| SCNR4026-2R2NT | 2.2         | 30                  | 100             | 0.030 $\pm$ 30%  | 2.10    | 2.00    |
| SCNR4026-3R3MT | 3.3         | 20                  | 100             | 0.037 $\pm$ 30%  | 1.80    | 1.70    |
| SCNR4026-4R7MT | 4.7         | 20                  | 100             | 0.055 $\pm$ 30%  | 1.45    | 1.60    |
| SCNR4026-6R8MT | 6.8         | 20                  | 100             | 0.065 $\pm$ 30%  | 1.30    | 1.50    |
| SCNR4026-100MT | 10          | 20                  | 100             | 0.085 $\pm$ 30%  | 1.00    | 1.30    |
| SCNR4026-150MT | 15          | 20                  | 100             | 0.110 $\pm$ 30%  | 0.90    | 1.10    |
| SCNR4026-220MT | 22          | 20                  | 100             | 0.200 $\pm$ 30%  | 0.60    | 0.90    |
| SCNR4026-330MT | 33          | 20                  | 100             | 0.270 $\pm$ 30%  | 0.54    | 0.70    |
| SCNR4026-470MT | 47          | 20                  | 100             | 0.400 $\pm$ 30%  | 0.40    | 0.65    |

**Electrical Characteristics**电气性能

## SCNR5020 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR5020-R47NT | 0.47        | 30                  | 100             | 0.016 $\pm$ 30%  | 6.15    | 5.00    |
| SCNR5020-R75NT | 0.75        | 30                  | 100             | 0.018 $\pm$ 30%  | 5.50    | 4.00    |
| SCNR5020-1R0NT | 1.0         | 30                  | 100             | 0.020 $\pm$ 30%  | 4.40    | 3.80    |
| SCNR5020-1R5NT | 1.5         | 30                  | 100             | 0.028 $\pm$ 30%  | 4.10    | 3.20    |
| SCNR5020-2R2NT | 2.2         | 30                  | 100             | 0.033 $\pm$ 30%  | 3.20    | 2.90    |
| SCNR5020-3R3MT | 3.3         | 20                  | 100             | 0.043 $\pm$ 30%  | 2.55    | 2.50    |
| SCNR5020-4R7MT | 4.7         | 20                  | 100             | 0.058 $\pm$ 30%  | 2.50    | 2.20    |
| SCNR5020-5R6MT | 5.6         | 20                  | 100             | 0.068 $\pm$ 30%  | 2.30    | 2.05    |
| SCNR5020-6R8MT | 6.8         | 20                  | 100             | 0.075 $\pm$ 30%  | 2.05    | 1.80    |
| SCNR5020-8R2MT | 8.2         | 20                  | 100             | 0.096 $\pm$ 30%  | 1.85    | 1.65    |
| SCNR5020-100MT | 10          | 20                  | 100             | 0.120 $\pm$ 30%  | 1.70    | 1.55    |
| SCNR5020-150MT | 15          | 20                  | 100             | 0.165 $\pm$ 30%  | 1.35    | 1.25    |
| SCNR5020-180MT | 18          | 20                  | 100             | 0.200 $\pm$ 30%  | 1.25    | 1.15    |
| SCNR5020-220MT | 22          | 20                  | 100             | 0.220 $\pm$ 30%  | 1.15    | 1.10    |
| SCNR5020-330MT | 33          | 20                  | 100             | 0.350 $\pm$ 30%  | 0.92    | 0.90    |
| SCNR5020-390MT | 39          | 20                  | 100             | 0.410 $\pm$ 30%  | 0.80    | 0.75    |
| SCNR5020-470MT | 47          | 20                  | 100             | 0.520 $\pm$ 30%  | 0.77    | 0.77    |
| SCNR5020-560MT | 56          | 20                  | 100             | 0.600 $\pm$ 30%  | 0.77    | 0.70    |
| SCNR5020-680MT | 68          | 20                  | 100             | 0.680 $\pm$ 30%  | 0.65    | 0.64    |
| SCNR5020-820MT | 82          | 20                  | 100             | 0.860 $\pm$ 30%  | 0.55    | 0.55    |
| SCNR5020-101MT | 100         | 20                  | 100             | 1.100 $\pm$ 30%  | 0.53    | 0.53    |

## SCNR5045 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR5045-1R0NT | 1.0         | 30                  | 100             | 0.012 $\pm$ 30%  | 7.35    | 4.90    |
| SCNR5045-1R5NT | 1.5         | 30                  | 100             | 0.014 $\pm$ 30%  | 6.00    | 4.50    |
| SCNR5045-2R2NT | 2.2         | 30                  | 100             | 0.018 $\pm$ 30%  | 4.90    | 3.80    |
| SCNR5045-3R3NT | 3.3         | 30                  | 100             | 0.024 $\pm$ 30%  | 3.95    | 3.40    |
| SCNR5045-4R7NT | 4.7         | 30                  | 100             | 0.030 $\pm$ 30%  | 3.50    | 3.00    |
| SCNR5045-5R6MT | 5.6         | 20                  | 100             | 0.040 $\pm$ 30%  | 3.00    | 2.80    |
| SCNR5045-6R8MT | 6.8         | 20                  | 100             | 0.045 $\pm$ 30%  | 2.90    | 2.50    |

**Electrical Characteristics**电气性能

## SCNR5045 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR5045-8R2MT | 8.2         | 20                   | 100             | 0.055 $\pm$ 30%  | 2.70    | 2.30    |
| SCNR5045-100MT | 10          | 20                   | 100             | 0.066 $\pm$ 30%  | 2.35    | 2.10    |
| SCNR5045-150MT | 15          | 20                   | 100             | 0.090 $\pm$ 30%  | 2.00    | 2.00    |
| SCNR5045-220MT | 22          | 20                   | 100             | 0.130 $\pm$ 30%  | 1.60    | 1.50    |
| SCNR5045-330MT | 33          | 20                   | 100             | 0.200 $\pm$ 30%  | 1.30    | 1.20    |
| SCNR5045-390MT | 39          | 20                   | 100             | 0.230 $\pm$ 30%  | 1.20    | 1.10    |
| SCNR5045-470MT | 47          | 20                   | 100             | 0.300 $\pm$ 30%  | 1.00    | 1.00    |
| SCNR5045-560MT | 56          | 20                   | 100             | 0.330 $\pm$ 30%  | 0.95    | 0.85    |
| SCNR5045-680MT | 68          | 20                   | 100             | 0.420 $\pm$ 30%  | 0.90    | 0.80    |
| SCNR5045-820MT | 82          | 20                   | 100             | 0.500 $\pm$ 30%  | 0.80    | 0.75    |
| SCNR5045-101MT | 100         | 20                   | 1               | 0.620 $\pm$ 30%  | 0.75    | 0.70    |
| SCNR5045-151MT | 150         | 20                   | 1               | 0.850 $\pm$ 30%  | 0.65    | 0.60    |
| SCNR5045-181MT | 180         | 20                   | 1               | 1.150 $\pm$ 30%  | 0.50    | 0.43    |
| SCNR5045-221MT | 220         | 20                   | 1               | 1.200 $\pm$ 30%  | 0.46    | 0.42    |
| SCNR5045-331MT | 330         | 20                   | 1               | 1.750 $\pm$ 30%  | 0.40    | 0.36    |
| SCNR5045-391MT | 390         | 20                   | 1               | 2.500 $\pm$ 30%  | 0.35    | 0.32    |
| SCNR5045-471MT | 470         | 20                   | 1               | 2.850 $\pm$ 30%  | 0.32    | 0.30    |
| SCNR5045-561MT | 560         | 20                   | 1               | 3.200 $\pm$ 30%  | 0.30    | 0.28    |
| SCNR5045-681MT | 680         | 20                   | 1               | 3.750 $\pm$ 30%  | 0.27    | 0.25    |
| SCNR5045-821MT | 820         | 20                   | 1               | 5.700 $\pm$ 30%  | 0.24    | 0.22    |
| SCNR5045-102MT | 1000        | 20                   | 1               | 6.500 $\pm$ 30%  | 0.21    | 0.19    |

## SCNR6020 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm\%$ ) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|----------------------|-----------------|------------------|---------|---------|
| SCNR6020-1R0NT | 1.0         | 30                   | 100             | 0.020 $\pm$ 30%  | 4.15    | 3.50    |
| SCNR6020-1R5NT | 1.5         | 30                   | 100             | 0.022 $\pm$ 30%  | 4.00    | 3.20    |
| SCNR6020-2R2NT | 2.2         | 30                   | 100             | 0.028 $\pm$ 30%  | 3.75    | 2.75    |
| SCNR6020-3R3MT | 3.3         | 20                   | 100             | 0.035 $\pm$ 30%  | 3.15    | 2.60    |
| SCNR6020-4R7MT | 4.7         | 20                   | 100             | 0.058 $\pm$ 30%  | 3.00    | 2.00    |
| SCNR6020-6R8MT | 6.8         | 20                   | 100             | 0.079 $\pm$ 30%  | 2.20    | 1.80    |
| SCNR6020-100MT | 10          | 20                   | 100             | 0.105 $\pm$ 30%  | 1.75    | 1.40    |
| SCNR6020-150MT | 15          | 20                   | 100             | 0.145 $\pm$ 30%  | 1.20    | 1.20    |
| SCNR6020-220MT | 22          | 20                   | 100             | 0.204 $\pm$ 30%  | 1.05    | 1.00    |
| SCNR6020-330MT | 33          | 20                   | 100             | 0.300 $\pm$ 30%  | 0.95    | 0.84    |
| SCNR6020-470MT | 47          | 20                   | 100             | 0.430 $\pm$ 30%  | 0.70    | 0.65    |
| SCNR6020-680MT | 68          | 20                   | 100             | 0.660 $\pm$ 30%  | 0.62    | 0.60    |
| SCNR6020-101MT | 100         | 20                   | 100             | 1.200 $\pm$ 30%  | 0.50    | 0.45    |

**Electrical Characteristics**电气性能

## SCNR6028 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR6028-1R0NT | 1.0         | 30                  | 100             | 0.014 $\pm$ 30%  | 5.75    | 5.20    |
| SCNR6028-1R5NT | 1.5         | 30                  | 100             | 0.016 $\pm$ 30%  | 5.00    | 4.58    |
| SCNR6028-2R2NT | 2.2         | 30                  | 100             | 0.020 $\pm$ 30%  | 5.10    | 3.75    |
| SCNR6028-3R3NT | 3.3         | 30                  | 100             | 0.023 $\pm$ 30%  | 3.60    | 3.48    |
| SCNR6028-4R7NT | 4.7         | 30                  | 100             | 0.031 $\pm$ 30%  | 2.70    | 3.08    |
| SCNR6028-6R8MT | 6.8         | 20                  | 100             | 0.048 $\pm$ 30%  | 2.30    | 2.40    |
| SCNR6028-100MT | 10          | 20                  | 100             | 0.065 $\pm$ 30%  | 1.90    | 1.95    |
| SCNR6028-150MT | 15          | 20                  | 100             | 0.095 $\pm$ 30%  | 1.60    | 1.45    |
| SCNR6028-220MT | 22          | 20                  | 100             | 0.135 $\pm$ 30%  | 1.30    | 1.40    |
| SCNR6028-330MT | 33          | 20                  | 100             | 0.220 $\pm$ 30%  | 1.10    | 1.22    |
| SCNR6028-470MT | 47          | 20                  | 100             | 0.300 $\pm$ 30%  | 0.95    | 1.06    |
| SCNR6028-680MT | 68          | 20                  | 100             | 0.420 $\pm$ 30%  | 0.76    | 0.86    |
| SCNR6028-820MT | 82          | 20                  | 100             | 0.520 $\pm$ 30%  | 0.64    | 0.70    |
| SCNR6028-101MT | 100         | 20                  | 100             | 0.570 $\pm$ 30%  | 0.62    | 0.70    |
| SCNR6028-151MT | 150         | 20                  | 100             | 0.760 $\pm$ 30%  | 0.50    | 0.50    |
| SCNR6028-221MT | 220         | 20                  | 100             | 1.200 $\pm$ 30%  | 0.38    | 0.38    |
| SCNR6028-331MT | 330         | 20                  | 100             | 1.800 $\pm$ 30%  | 0.32    | 0.32    |
| SCNR6028-471MT | 470         | 20                  | 100             | 2.300 $\pm$ 30%  | 0.28    | 0.28    |
| SCNR6028-681MT | 680         | 20                  | 100             | 4.600 $\pm$ 30%  | 0.23    | 0.23    |

## SCNR6045 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR6045-R82NT | 0.82        | 30                  | 100             | 0.008 $\pm$ 30%  | 10.35   | 5.90    |
| SCNR6045-1R0NT | 1.0         | 30                  | 100             | 0.014 $\pm$ 30%  | 8.50    | 5.14    |
| SCNR6045-1R3NT | 1.3         | 30                  | 100             | 0.016 $\pm$ 30%  | 8.00    | 5.05    |
| SCNR6045-1R8NT | 1.8         | 30                  | 100             | 0.018 $\pm$ 30%  | 7.00    | 4.95    |
| SCNR6045-2R2NT | 2.2         | 30                  | 100             | 0.021 $\pm$ 30%  | 6.00    | 4.60    |
| SCNR6045-3R0MT | 3.0         | 20                  | 100             | 0.024 $\pm$ 30%  | 5.00    | 3.80    |
| SCNR6045-3R3MT | 3.3         | 20                  | 100             | 0.024 $\pm$ 30%  | 5.00    | 3.70    |
| SCNR6045-4R5MT | 4.5         | 20                  | 100             | 0.031 $\pm$ 30%  | 4.00    | 3.30    |
| SCNR6045-4R7MT | 4.7         | 20                  | 100             | 0.031 $\pm$ 30%  | 4.00    | 3.30    |
| SCNR6045-6R3MT | 6.3         | 20                  | 100             | 0.035 $\pm$ 30%  | 3.80    | 3.15    |
| SCNR6045-6R8MT | 6.8         | 20                  | 100             | 0.038 $\pm$ 30%  | 3.80    | 3.00    |
| SCNR6045-8R2MT | 8.2         | 20                  | 100             | 0.043 $\pm$ 30%  | 3.50    | 2.70    |
| SCNR6045-100MT | 10          | 20                  | 100             | 0.047 $\pm$ 30%  | 3.20    | 2.45    |
| SCNR6045-150MT | 15          | 20                  | 100             | 0.077 $\pm$ 30%  | 2.50    | 2.05    |
| SCNR6045-220MT | 22          | 20                  | 100             | 0.115 $\pm$ 30%  | 2.05    | 1.80    |
| SCNR6045-330MT | 33          | 20                  | 100             | 0.145 $\pm$ 30%  | 1.65    | 1.45    |
| SCNR6045-390MT | 39          | 20                  | 100             | 0.210 $\pm$ 30%  | 1.50    | 1.25    |
| SCNR6045-470MT | 47          | 20                  | 100             | 0.220 $\pm$ 30%  | 1.40    | 1.20    |

**Electrical Characteristics** 电气性能

## SCNR6045 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR6045-560MT | 56          | 20                  | 100             | 0.260 $\pm$ 30%  | 1.30    | 1.10    |
| SCNR6045-680MT | 68          | 20                  | 100             | 0.330 $\pm$ 30%  | 1.20    | 1.00    |
| SCNR6045-820MT | 82          | 20                  | 100             | 0.450 $\pm$ 30%  | 1.05    | 0.90    |
| SCNR6045-101MT | 100         | 20                  | 100             | 0.500 $\pm$ 30%  | 0.95    | 0.80    |
| SCNR6045-151MT | 150         | 20                  | 100             | 0.800 $\pm$ 30%  | 0.80    | 0.70    |
| SCNR6045-181MT | 180         | 20                  | 100             | 0.950 $\pm$ 30%  | 0.75    | 0.65    |
| SCNR6045-221MT | 220         | 20                  | 100             | 1.200 $\pm$ 30%  | 0.70    | 0.59    |
| SCNR6045-331MT | 330         | 20                  | 100             | 1.700 $\pm$ 30%  | 0.57    | 0.57    |

## SCNR8040 Series

| Part Number    | L( $\mu$ H) | Tolerance( $\pm$ %) | Test Freq.(KHz) | RDC ( $\Omega$ ) | Isat(A) | Irms(A) |
|----------------|-------------|---------------------|-----------------|------------------|---------|---------|
| SCNR8040-R90NT | 0.90        | 30                  | 100             | 0.006 $\pm$ 30%  | 11.00   | 7.80    |
| SCNR8040-1R4NT | 1.4         | 30                  | 100             | 0.007 $\pm$ 30%  | 9.00    | 7.00    |
| SCNR8040-2R0NT | 2.0         | 30                  | 100             | 0.009 $\pm$ 30%  | 7.40    | 6.30    |
| SCNR8040-2R2NT | 2.2         | 30                  | 100             | 0.009 $\pm$ 30%  | 7.40    | 6.30    |
| SCNR8040-2R8NT | 2.8         | 30                  | 100             | 0.014 $\pm$ 30%  | 5.80    | 5.10    |
| SCNR8040-3R6MT | 3.6         | 20                  | 100             | 0.015 $\pm$ 30%  | 5.30    | 4.90    |
| SCNR8040-4R7MT | 4.7         | 20                  | 100             | 0.018 $\pm$ 30%  | 4.70    | 4.10    |
| SCNR8040-6R8MT | 6.8         | 20                  | 100             | 0.025 $\pm$ 30%  | 4.00    | 3.70    |
| SCNR8040-100MT | 10          | 20                  | 100             | 0.034 $\pm$ 30%  | 3.40    | 3.10    |
| SCNR8040-150MT | 15          | 20                  | 100             | 0.050 $\pm$ 30%  | 2.70    | 2.40    |
| SCNR8040-220MT | 22          | 20                  | 100             | 0.066 $\pm$ 30%  | 2.20    | 2.20    |
| SCNR8040-330MT | 33          | 20                  | 100             | 0.100 $\pm$ 30%  | 1.90    | 1.70    |
| SCNR8040-470MT | 47          | 20                  | 100             | 0.150 $\pm$ 30%  | 1.50    | 1.40    |
| SCNR8040-680MT | 68          | 20                  | 100             | 0.230 $\pm$ 30%  | 1.20    | 1.10    |
| SCNR8040-101MT | 100         | 20                  | 100             | 0.290 $\pm$ 30%  | 1.00    | 1.00    |
| SCNR8040-151MT | 150         | 20                  | 100             | 0.480 $\pm$ 30%  | 0.95    | 0.85    |
| SCNR8040-221MT | 220         | 20                  | 100             | 0.660 $\pm$ 30%  | 0.85    | 0.80    |
| SCNR8040-331MT | 330         | 20                  | 100             | 1.020 $\pm$ 30%  | 0.68    | 0.64    |

Isat: The DC current is that which cause a 30% inductance reduction from the initial value.

Irms: The DC current is inductor surface temperature to rise by 40 $^{\circ}$ C ( Reference ambient temperature 20 $^{\circ}$ C ).

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