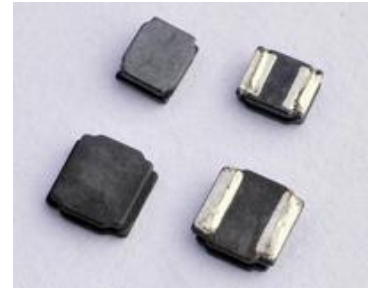




## SMD Power Inductor SCNR Series 贴片功率电感 SCNR 系列

### 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

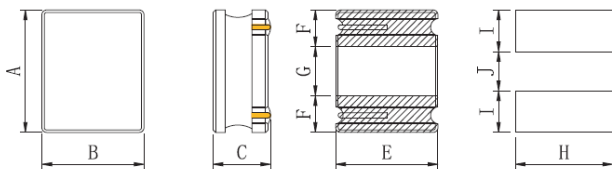
SCNR 3015 - 3R3 M T

- 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】

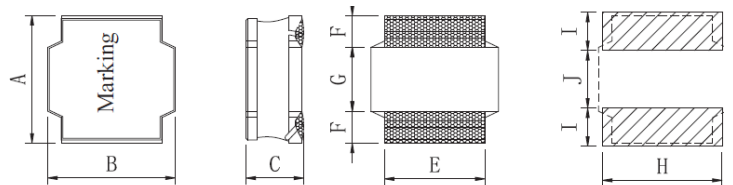
### Shapes And Dimensions 外形及尺寸示意图

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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