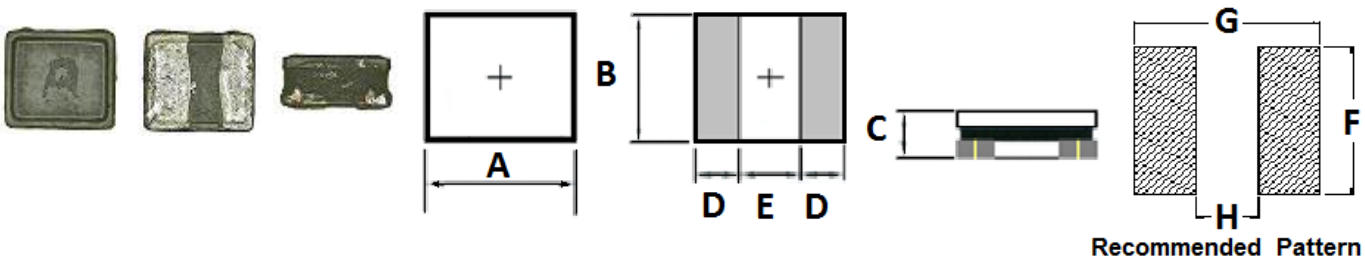
## DIMENSIONS




Recommended Pattern

mm

| No | Part No. | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|
| 1 | SNR 201610D | 2.0 -0.1/+0.2 | 1.6 -0.1/+0.2 | 1.0 max. | 0.6 ref. | 0.8 ref. | 1.7 | 2.3 | 0.7 |
| 2 | SNR 201610U | 2.0 -0.1/+0.2 | 1.6 -0.1/+0.2 | 1.0 max. | 0.6 ref. | 0.8 ref. | 1.7 | 2.3 | 0.7 |
| 3 | SNR 252010D | 2.5 -0.1/+0.2 | 2.0 -0.05/+0.35 | 1.02 max. | 0.85 ref. | 0.8 ref. | 2.4 | 2.9 | 0.8 |
| 4 | SNR 252010U | 2.5 -0.1/+0.2 | 2.0 -0.05/+0.35 | 1.02 max. | 0.85 ref. | 0.8 ref. | 2.4 | 2.9 | 0.8 |
| 5 | SNR 252012U | 2.5 -0.1/+0.2 | 2.0 -0.05/+0.35 | 1.2 max. | 0.85 ref. | 0.80 ref. | 2.4 | 2.9 | 1.0 |

D:high current U:low RDC

## SERIES LIST

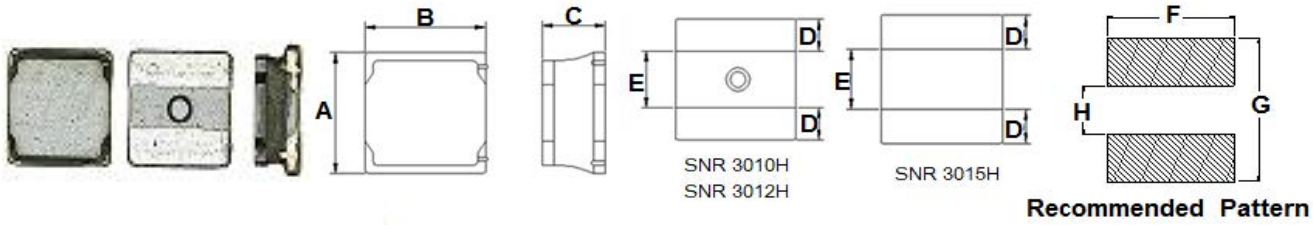
| No. | Part No. | L (µH) | Tol. % | Test Freq. (Hz) | RDC(Ω) | Isat(A) | | Irms(A) | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Max. | Typ. | Max. | Typ. |
| 1 | SNR 201610D-R10M | 0.10 | ±20 | 1M/0.1V | 0.025max. | 7.00 | 8.00 | 4.40 | 5.00 |
| 2 | SNR 201610D-R24M | 0.24 | ±20 | 1M/0.1V | 0.028max. | 4.50 | 5.10 | 3.90 | 4.40 |
| 3 | SNR 201610D-R33M | 0.33 | ±20 | 1M/0.1V | 0.040max. | 3.50 | 3.90 | 3.10 | 3.50 |
| 4 | SNR 201610D-R47M | 0.47 | ±20 | 1M/0.1V | 0.042max. | 3.40 | 3.85 | 3.00 | 3.30 |
| 5 | SNR 201610D-R68M | 0.68 | ±20 | 1M/0.1V | 0.055max. | 2.80 | 3.25 | 2.50 | 2.80 |
| 6 | SNR 201610D-1R0M | 1.0 | ±20 | 1M/0.1V | 0.072max. | 2.50 | 2.90 | 2.20 | 2.40 |
| 7 | SNR 201610D-1R5M | 1.5 | ±20 | 1M/0.1V | 0.118max. | 1.80 | 2.30 | 1.80 | 2.10 |
| 8 | SNR 201610D-2R2M | 2.2 | ±20 | 1M/0.1V | 0.170max. | 1.70 | 2.10 | 1.55 | 1.70 |
| 1 | SNR 201610U-R47N | 0.47 | ±30 | 1M/0.1V | 0.044±20% | 3.00 | 2.70 | 2.60 | 2.35 |
| 2 | SNR 201610U-R68N | 0.68 | ±30 | 1M/0.1V | 0.062±20% | 2.45 | 2.00 | 2.25 | 2.05 |
| 3 | SNR 201610U-1R0N | 1.0 | ±30 | 1M/0.1V | 0.080±20% | 1.95 | 1.80 | 1.75 | 1.60 |
| 4 | SNR 201610U-1R5N | 1.5 | ±30 | 1M/0.1V | 0.130±20% | 1.65 | 1.46 | 1.40 | 1.26 |
| 5 | SNR 201610U-2R2M | 2.2 | ±20 | 1M/0.1V | 0.145±20% | 1.45 | 1.26 | 1.35 | 1.20 |
| 6 | SNR 201610U-3R3M | 3.3 | ±20 | 1M/0.1V | 0.245±20% | 1.05 | 0.90 | 1.05 | 0.95 |
| 7 | SNR 201610U-4R7M | 4.7 | ±20 | 1M/0.1V | 0.360±20% | 0.85 | 0.77 | 1.00 | 0.90 |
| 8 | SNR 201610U-6R8M | 6.8 | ±20 | 1M/0.1V | 5.000±20% | 0.80 | 0.72 | 0.70 | 0.55 |
| 9 | SNR 201610U-100M | 10 | ±20 | 1M/0.1V | 0.720±20% | 0.62 | 0.55 | 0.50 | 0.45 |
| 10 | SNR 201610U-150M | 15 | ±20 | 1M/0.1V | 1.400±20% | 0.50 | 0.45 | 0.40 | 0.36 |
| 11 | SNR 201610U-180M | 18 | ±20 | 1M/0.1V | 1.800±20% | 0.45 | 0.40 | 0.38 | 0.34 |
| 12 | SNR 201610U-220M | 22 | ±20 | 1M/0.1V | 2.000±20% | 0.43 | 0.38 | 0.30 | 0.27 |
| 1 | SNR 252010D-R24M | 0.24 | ±20 | 1M/0.1V | 0.042max. | 4.30 | 4.80 | 3.10 | 3.60 |
| 2 | SNR 252010D-R47M | 0.47 | ±20 | 1M/0.1V | 0.042max. | 3.20 | 4.00 | 3.10 | 3.60 |
| 3 | SNR 252010D-R68M | 0.68 | ±20 | 1M/0.1V | 0.055max. | 2.90 | 3.70 | 2.80 | 3.30 |
| 4 | SNR 252010D-1R0M | 1.0 | ±20 | 1M/0.1V | 0.080max. | 2.70 | 3.40 | 2.20 | 2.60 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 5 | SNR 252010D-2R2M | 2.2 | ±20 | 1M/0.1V | 0.169max. | 1.90 | 2.40 | 1.50 | 1.80 |
| 1 | SNR 252010U-R47Y | 0.47 | ±30 | 1M/0.1V | 0.030±20% | 2.57 | 2.85 | 2.50 | 2.80 |
| 2 | SNR 252010U-R68Y | 0.68 | ±30 | 1M/0.1V | 0.039±20% | 2.45 | 2.70 | 2.20 | 2.45 |
| 3 | SNR 252010U-1R0Y | 1.0 | ±30 | 1M/0.1V | 0.055±20% | 2.05 | 2.45 | 1.80 | 2.20 |
| 4 | SNR 252010U-1R5Y | 1.5 | ±30 | 1M/0.1V | 0.090±20% | 1.70 | 1.80 | 1.55 | 1.70 |
| 5 | SNR 252010U-2R2M | 2.2 | ±20 | 1M/0.1V | 0.114±20% | 1.55 | 1.60 | 1.40 | 1.55 |
| 6 | SNR 252010U-3R3M | 3.3 | ±20 | 1M/0.1V | 0.170±20% | 1.10 | 1.30 | 1.10 | 1.25 |
| 7 | SNR 252010U-4R7M | 4.7 | ±20 | 1M/0.1V | 0.250±20% | 0.95 | 1.10 | 0.92 | 1.05 |
| 8 | SNR 252010U-6R8M | 6.8 | ±20 | 1M/0.1V | 0.370±20% | 0.80 | 0.95 | 0.76 | 0.85 |
| 9 | SNR 252010U-100M | 10 | ±20 | 1M/0.1V | 0.470±20% | 0.65 | 0.75 | 0.67 | 0.75 |
| 10 | SNR 252010U-150M | 15 | ±20 | 1M/0.1V | 0.750±20% | 0.45 | 0.55 | 0.50 | 0.55 |
| 11 | SNR 252010U-220M | 22 | ±20 | 1M/0.1V | 1.120±20% | 0.40 | 0.50 | 0.45 | 0.50 |
| 1 | SNR 252012U-R47Y | 0.47 | ±30 | 1M/0.1V | 0.028±20% | 3.60 | 4.00 | 3.35 | 3.70 |
| 2 | SNR 252012U-R68Y | 0.68 | ±30 | 1M/0.1V | 0.036±20% | 2.70 | 3.00 | 3.00 | 3.30 |
| 3 | SNR 252012U-1R0Y | 1.0 | ±30 | 1M/0.1V | 0.049±20% | 2.45 | 2.70 | 2.30 | 2.60 |
| 4 | SNR 252012U-1R5Y | 1.5 | ±30 | 1M/0.1V | 0.063±20% | 2.05 | 2.30 | 1.95 | 2.20 |
| 5 | SNR 252012U-2R2M | 2.2 | ±20 | 1M/0.1V | 0.080±20% | 1.95 | 2.15 | 1.65 | 1.85 |
| 6 | SNR 252012U-3R3M | 3.3 | ±20 | 1M/0.1V | 0.120±20% | 1.50 | 1.70 | 1.30 | 1.45 |
| 7 | SNR 252012U-4R7M | 4.7 | ±20 | 1M/0.1V | 0.176±20% | 1.35 | 1.50 | 1.05 | 1.20 |
| 8 | SNR 252012U-6R8M | 6.8 | ±20 | 1M/0.1V | 0.250±20% | 1.00 | 1.15 | 0.90 | 1.00 |
| 9 | SNR 252012U-100M | 10 | ±20 | 1M/0.1V | 0.410±20% | 0.75 | 0.85 | 0.65 | 0.75 |
| 10 | SNR 252012U-150M | 15 | ±20 | 1M/0.1V | 0.540±20% | 0.56 | 0.63 | 0.54 | 0.60 |
| 11 | SNR 252012U-220M | 22 | ±20 | 1M/0.1V | 0.850±20% | 0.50 | 0.56 | 0.45 | 0.50 |

Note:

1. All test data referenced to 25℃ ambient
2. Isat：Based on inductance change （△L/L0：≦30%）
3. Irms：Based on temperature rise （△T：40℃.）

## DIMENSIONS

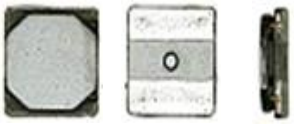


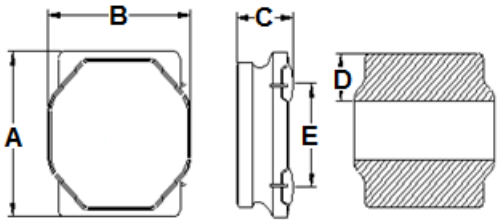

| No | Part No. | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|
| 1 | SNR 3010H | 3.0 ± 0.2 | 3.0 ± 0.2 | 1.0 Max. | 1.0 Ref. | 1.0 Ref. | 3.2 | 3.2 | 1.0 |
| 2 | SNR 3012H | 3.0 ± 0.2 | 3.2 ± 0.2 | 1.2 Max. | 1.0 Ref. | 1.0 Ref. | 3.2 | 3.2 | 1.0 |
| 3 | SNR 3015H | 3.0 ± 0.2 | 3.0 ± 0.2 | 1.5 Max. | 1.0 Ref. | 1.0 Ref. | 3.2 | 3.2 | 1.0 |

## SERIES LIST

| No. | Part No. | L (µH) | Tol. % | Test Freq. (Hz) | RDC(Ω) ±20% | Isat(A) Typ. | Irms(A) Typ. |
|---|---|---|---|---|---|---|---|
| 1 | SNR 3010H-1R0N | 1.0 | ±30 | 1M/0.1V | 0.055 | 1.80 | 2.10 |
| 2 | SNR 3010H-1R5N | 1.5 | ±30 | 1M/0.1V | 0.070 | 1.50 | 1.90 |
| 3 | SNR 3010H-2R2M | 2.2 | ±20 | 1M/0.1V | 0.090 | 1.30 | 1.70 |
| 4 | SNR 3010H-3R3M | 3.3 | ±20 | 1M/0.1V | 0.130 | 1.10 | 1.50 |
| 5 | SNR 3010H-4R7M | 4.7 | ±20 | 1M/0.1V | 0.170 | 0.90 | 1.30 |
| 6 | SNR 3010H-6R8M | 6.8 | ±20 | 1M/0.1V | 0.260 | 0.77 | 1.00 |
| 7 | SNR 3010H-100M | 10 | ±20 | 1M/0.1V | 0.350 | 0.63 | 0.80 |
| 8 | SNR 3010H-150M | 15 | ±20 | 1M/0.1V | 0.510 | 0.54 | 0.70 |
| 9 | SNR 3010H-220M | 22 | ±20 | 1M/0.1V | 0.750 | 0.43 | 0.60 |
| 1 | SNR 3012H-1R0N | 1.0 | ±30 | 1M/0.1V | 0.042 | 2.15 | 2.00 |
| 2 | SNR 3012H-1R5N | 1.5 | ±30 | 1M/0.1V | 0.056 | 1.70 | 1.85 |
| 3 | SNR 3012H-2R2M | 2.2 | ±20 | 1M/0.1V | 0.080 | 1.50 | 1.70 |
| 4 | SNR 3012H-3R3M | 3.3 | ±20 | 1M/0.1V | 0.100 | 1.20 | 1.55 |
| 5 | SNR 3012H-4R7M | 4.7 | ±20 | 1M/0.1V | 0.130 | 1.05 | 1.30 |
| 6 | SNR 3012H-6R8M | 6.8 | ±20 | 1M/0.1V | 0.180 | 0.90 | 1.05 |
| 7 | SNR 3012H-100M | 10 | ±20 | 1M/0.1V | 0.245 | 0.76 | 0.89 |
| 8 | SNR 3012H-150M | 15 | ±20 | 1M/0.1V | 0.386 | 0.62 | 0.74 |
| 9 | SNR 3012H-220M | 22 | ±20 | 1M/0.1V | 0.580 | 0.49 | 0.61 |
| 1 | SNR 3015H-1R0N | 1.0 | ±30 | 100K/1V | 0.03 | 2.20 | 2.20 |
| 2 | SNR 3015H-1R5N | 1.5 | ±30 | 100K/1V | 0.04 | 2.00 | 2.00 |
| 3 | SNR 3015H-2R2M | 2.2 | ±20 | 100K/1V | 0.06 | 1.70 | 1.70 |
| 4 | SNR 3015H-3R3M | 3.3 | ±20 | 100K/1V | 0.08 | 1.40 | 1.40 |
| 5 | SNR 3015H-4R7M | 4.7 | ±20 | 100K/1V | 0.12 | 1.20 | 1.20 |
| 6 | SNR 3015H-6R8M | 6.8 | ±20 | 100K/1V | 0.16 | 1.00 | 1.00 |
| 7 | SNR 3015H-100M | 10 | ±20 | 100K/1V | 0.22 | 0.75 | 0.80 |
| 8 | SNR 3015H-150M | 15 | ±20 | 100K/1V | 0.32 | 0.65 | 0.70 |
| 9 | SNR 3015H-220M | 22 | ±20 | 100K/1V | 0.46 | 0.55 | 0.60 |
| 10 | SNR 3015H-330M | 33 | ±20 | 100K/1V | 0.80 | 0.40 | 0.45 |
| 11 | SNR 3015H-470M | 47 | ±20 | 100K/1V | 1.20 | 0.35 | 0.40 |

## DIMENSIONS

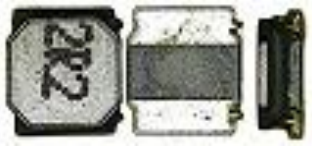


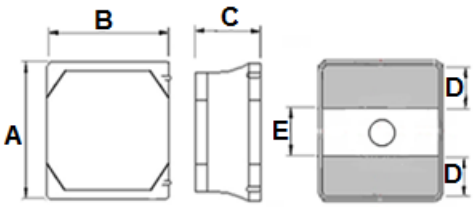



Recommended Pattern

mm

| No | Part No. | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|
| 1 | SNR 4010H | 4.0 ± 0.2 | 4.0 ± 0.2 | 1.0 Max. | 1.2 Ref. | 1.6 Ref. | 4.2 | 4.2 | 1.2 |
| 2 | SNR 4012H | 4.0 ± 0.2 | 4.0 ± 0.2 | 1.2 Max. | 1.2 Ref. | 1.6 Ref. | 4.2 | 4.2 | 1.2 |




Recommended Pattern

mm

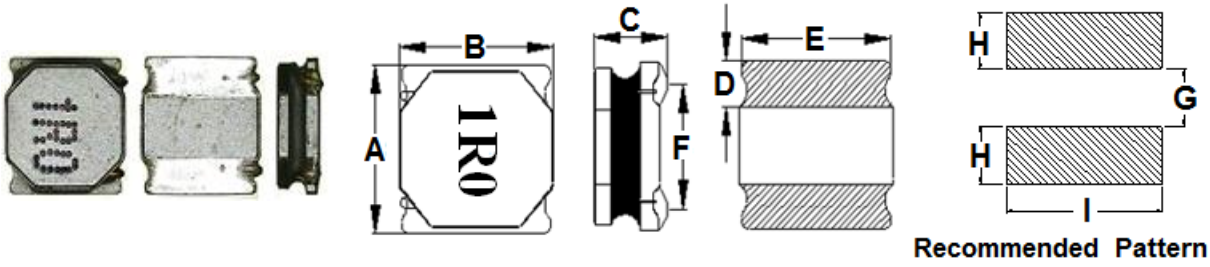
| No | Part No. | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|---|
| 1 | SNR 4018H | 4.0 ± 0.2 | 4.0 ± 0.2 | 1.8 Max. | 1.1 ± 0.2 | 2.5 ± 0.2 | 3.7 | 2.8 | 1.2 |

## SERIES LIST

| No. | Part No. | L (µH) | Tol. % | Test Freq. (Hz) | RDC(Ω) ±20% | Isat(A) Typ. | Irms(A) Typ. |
|---|---|---|---|---|---|---|---|
| 1 | SNR 4010H-1R0N | 1.0 | ±30 | 100K/1V | 0.056 | 2.40 | 2.30 |
| 2 | SNR 4010H-2R2M | 2.2 | ±20 | 100K/1V | 0.085 | 1.50 | 1.80 |
| 3 | SNR 4010H-3R3M | 3.3 | ±20 | 100K/1V | 0.100 | 1.30 | 1.70 |
| 4 | SNR 4010H-4R7M | 4.7 | ±20 | 100K/1V | 0.140 | 1.20 | 1.50 |
| 5 | SNR 4010H-6R8M | 6.8 | ±20 | 100K/1V | 0.200 | 1.00 | 1.20 |
| 6 | SNR 4010H-100M | 10 | ±20 | 100K/1V | 0.300 | 0.80 | 0.90 |
| 7 | SNR 4010H-150M | 15 | ±20 | 100K/1V | 0.430 | 0.70 | 0.80 |
| 8 | SNR 4010H-220M | 22 | ±20 | 100K/1V | 0.570 | 0.60 | 0.80 |
| 1 | SNR 4012H-1R0N | 1.0 | ±30 | 100K/1V | 0.042 | 3.30 | 2.50 |
| 2 | SNR 4012H-2R2M | 2.2 | ±20 | 100K/1V | 0.060 | 1.95 | 2.20 |
| 3 | SNR 4012H-3R3M | 3.3 | ±20 | 100K/1V | 0.070 | 1.60 | 1.90 |
| 4 | SNR 4012H-4R7M | 4.7 | ±20 | 100K/1V | 0.095 | 1.40 | 1.70 |
| 5 | SNR 4012H-6R8M | 6.8 | ±20 | 100K/1V | 0.125 | 1.10 | 1.50 |
| 6 | SNR 4012H-100M | 10 | ±20 | 100K/1V | 0.180 | 1.00 | 1.30 |
| 7 | SNR 4012H-150M | 15 | ±20 | 100K/1V | 0.260 | 0.80 | 0.95 |
| 8 | SNR 4012H-220M | 22 | ±20 | 100K/1V | 0.400 | 0.60 | 0.72 |
| 1 | SNR 4018H-1R0N | 1.0 | ±30 | 100K/1V | 0.027 | 4.00 | 3.20 |
| 2 | SNR 4018H-1R5N | 1.5 | ±30 | 100K/1V | 0.037 | 3.30 | 2.40 |
| 3 | SNR 4018H-2R2M | 2.2 | ±20 | 100K/1V | 0.042 | 3.00 | 2.20 |
| 4 | SNR 4018H-3R3M | 3.3 | ±20 | 100K/1V | 0.055 | 2.30 | 2.00 |
| 5 | SNR 4018H-4R7M | 4.7 | ±20 | 100K/1V | 0.070 | 2.00 | 1.70 |
| 6 | SNR 4018H-6R8M | 6.8 | ±20 | 100K/1V | 0.098 | 1.60 | 1.45 |

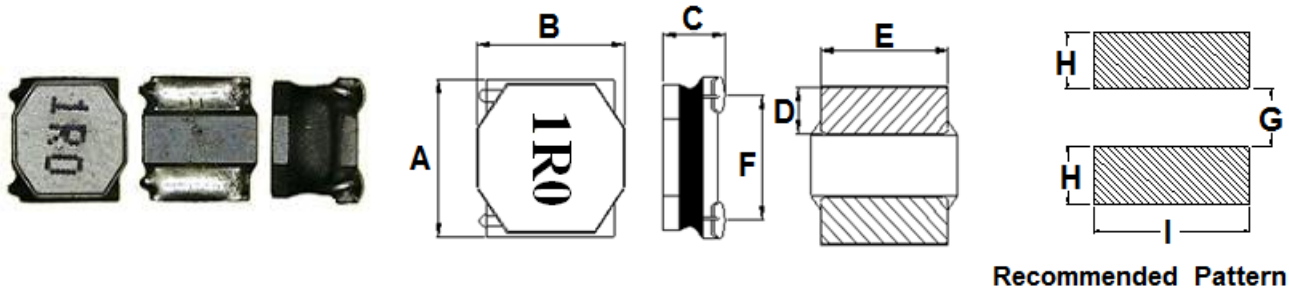
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7 | SNR 4018H-100M | 10 | ±20 | 100K/1V | 0.150 | 1.30 | 1.20 |
| 8 | SNR 4018H-150M | 15 | ±20 | 100K/1V | 0.210 | 1.10 | 0.85 |
| 9 | SNR 4018H-220M | 22 | ±20 | 100K/1V | 0.290 | 0.90 | 0.72 |
| 10 | SNR 4018H-330M | 33 | ±20 | 100K/1V | 0.460 | 0.70 | 0.55 |
| 11 | SNR 4018H-470M | 47 | ±20 | 100K/1V | 0.650 | 0.60 | 0.44 |
| 12 | SNR 4018H-680M | 68 | ±30 | 100K/1V | 1.00 | 0.50 | 0.32 |
| 13 | SNR 4018H-101M | 100 | ±20 | 100K/1V | 1.45 | 0.42 | 0.28 |
| 14 | SNR 4018H-151M | 150 | ±20 | 100K/1V | 2.30 | 0.34 | 0.22 |
| 15 | SNR 4018H-221M | 220 | ±20 | 100K/1V | 3.80 | 0.275 | 0.17 |

## DIMENSIONS




mm

| No | Part No. | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SNR 5020 | 5.0 ± 0.2 | 5.0 ± 0.2 | 1.8 ± 0.2 | 1.3 ± 0.2 | 4.7 ± 0.2 | 3.7 Ref. | 2.1 | 1.5 | 4.7 |




mm

| No | Part No. | Inductance | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | SNR 5040 | ≤10 uH | 5.0 ± 0.2 | 5.0 ± 0.2 | 3.9±0.2 | 1.3 ± 0.2 | 4.7 ± 0.2 | 3.7 Ref. | 2.1 | 1.5 | 4.2 |
| | | >10 uH | | | 3.8±0.2 | | | | | | |

## SERIES LIST

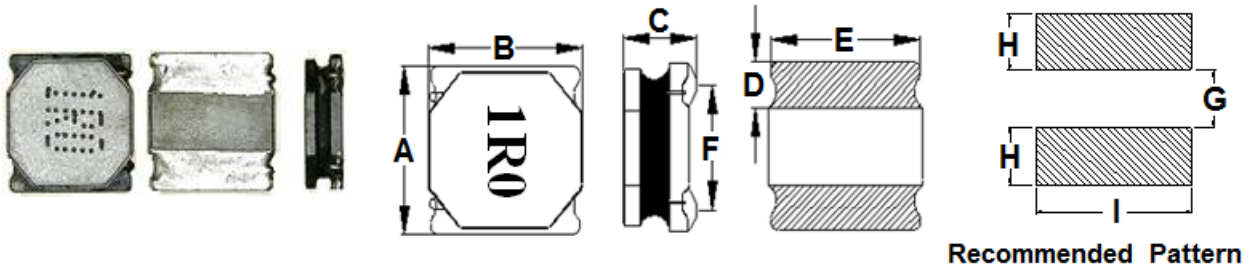
| No | Part No. | L (µH) | TOL. (%) | RDC (mΩ) ±20% | I sat (A) Typ. | I rms (A) Typ. |
|---|---|---|---|---|---|---|
| 1 | SNR 5020H-1R0N | 1.0 | ± 30 | 20 | 5.00 | 4.10 |
| 2 | SNR 5020H-1R2N | 1.2 | ± 30 | 20 | 4.80 | 3.80 |
| 3 | SNR 5020H-1R5N | 1.5 | ± 30 | 25 | 4.50 | 3.50 |
| 4 | SNR 5020H-2R2N | 2.2 | ± 30 | 32 | 4.10 | 3.30 |
| 5 | SNR 5020H-2R7M | 2.7 | ± 20 | 38 | 3.80 | 3.00 |
| 6 | SNR 5020H-3R3M | 3.3 | ± 20 | 43 | 3.50 | 2.80 |
| 7 | SNR 5020H-4R7M | 4.7 | ± 20 | 60 | 2.70 | 2.40 |
| 8 | SNR 5020H-5R6M | 5.6 | ± 20 | 69 | 2.40 | 2.10 |
| 9 | SNR 5020H-6R8M | 6.8 | ± 20 | 90 | 2.10 | 1.90 |
| 10 | SNR 5020H-8R2M | 8.2 | ± 20 | 98 | 1.90 | 1.75 |
| 11 | SNR 5020H-100M | 10 | ± 20 | 110 | 1.70 | 1.60 |
| 12 | SNR 5020H-120M | 12 | ± 20 | 135 | 1.40 | 1.40 |
| 13 | SNR 5020H-150M | 15 | ± 20 | 165 | 1.30 | 1.25 |
| 14 | SNR 5020H-180M | 18 | ± 20 | 190 | 1.20 | 1.17 |
| 15 | SNR 5020H-220M | 22 | ± 20 | 225 | 1.10 | 1.10 |
| 16 | SNR 5020H-330M | 33 | ± 20 | 335 | 0.80 | 0.80 |
| 17 | SNR 5020H-470M | 47 | ± 20 | 460 | 0.70 | 0.70 |
| 1 | SNR 5040H-1R0N | 1.0 | ± 30 | 12 | 7.50 | 5.00 |
| 2 | SNR 5040H-1R5N | 1.5 | ± 30 | 15 | 6.50 | 4.50 |
| 3 | SNR 5040H-2R2N | 2.2 | ± 30 | 21 | 5.70 | 3.80 |
| 4 | SNR 5040H-3R3M | 3.3 | ± 20 | 24 | 4.40 | 3.50 |
| 5 | SNR 5040H-4R7M | 4.7 | ± 20 | 32 | 3.90 | 3.20 |
| 6 | SNR 5040H-6R8M | 6.8 | ± 20 | 43 | 3.30 | 2.50 |
| 7 | SNR 5040H-100M | 10 | ± 20 | 56 | 2.52 | 2.20 |
| 8 | SNR 5040H-150M | 15 | ± 20 | 80 | 2.00 | 1.80 |
| 9 | SNR 5040H-220M | 22 | ± 20 | 123 | 1.62 | 1.50 |
| 10 | SNR 5040H-330M | 33 | ± 20 | 180 | 1.30 | 1.20 |
| 11 | SNR 5040H-470M | 47 | ± 20 | 270 | 1.10 | 1.00 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 12 | SNR 5040H-680M | 68 | ± 20 | 400 | 0.90 | 0.80 |
| 13 | SNR 5040H-101M | 100 | ± 20 | 560 | 0.75 | 0.72 |

Note:

1. Test Frequency: 100KHz /1V
2. All test data referenced to 25℃ ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. The part temperature (ambient + temp rise) should not exceed 125℃. Under worst case operating . Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Special inquiries besides the above common used types can be met on your requirement.

## DIMENSIONS




mm

| No | Part No. | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SNR 6020H | 6.0 ± 0.2 | 6.0 ± 0.2 | 1.8 ± 0.2 | 1.6 ± 0.3 | 5.8 ± 0.3 | 4.3 Ref. | 2.5 | 1.8 | 5.8 |
| 2 | SNR 6028H | 6.0 ± 0.2 | 6.0 ± 0.2 | 2.6 ± 0.2 | 1.6 ± 0.3 | 5.8 ± 0.3 | 4.3 Ref. | 2.5 | 1.8 | 5.8 |

## SERIES LIST

| No | Part No. | L (μH) | TOL. (%) | RDC (mΩ) ±20% | I sat (A) Typ. | I rms (A) Typ. |
|---|---|---|---|---|---|---|
| 1 | SNR 6020H-1R0M | 1.0 | ± 20 | 19 | 6.2 | 4.5 |
| 2 | SNR 6020H-1R5M | 1.5 | ± 20 | 22.5 | 5.5 | 3.8 |
| 3 | SNR 6020H-2R0M | 2.0 | ± 20 | 25 | 5.3 | 3.65 |
| 4 | SNR 6020H-2R2M | 2.2 | ± 20 | 29 | 5.0 | 3.5 |
| 5 | SNR 6020H-3R3M | 3.3 | ± 20 | 35 | 4.0 | 3.3 |
| 6 | SNR 6020H-4R7M | 4.7 | ± 20 | 54 | 3.0 | 2.8 |
| 7 | SNR 6020H-5R6M | 5.6 | ± 20 | 59 | 2.7 | 2.6 |
| 8 | SNR 6020H-6R8M | 6.8 | ± 20 | 78 | 2.6 | 2.5 |
| 9 | SNR 6020H-8R2M | 8.2 | ± 20 | 103 | 2.4 | 2.3 |
| 10 | SNR 6020H-100M | 10 | ± 20 | 106 | 2.1 | 2.1 |
| 11 | SNR 6020H-150M | 15 | ± 20 | 138 | 1.5 | 1.6 |
| 12 | SNR 6020H-220M | 22 | ± 20 | 204 | 1.3 | 1.4 |
| 1 | SNR 6028H-1R0N | 1.0 | ± 30 | 10 | 5.75 | 5.20 |
| 2 | SNR 6028H-1R5N | 1.5 | ± 30 | 14 | 5.30 | 4.95 |
| 3 | SNR 6028H-2R2M | 2.2 | ± 30 | 18 | 5.00 | 4.50 |
| 4 | SNR 6028H-3R3M | 3.3 | ± 20 | 24 | 4.30 | 3.60 |
| 5 | SNR 6028H-4R7M | 4.7 | ± 20 | 30 | 3.20 | 3.10 |
| 6 | SNR 6028H-6R8M | 6.8 | ± 20 | 47 | 2.85 | 2.50 |
| 7 | SNR 6028H-100M | 10 | ± 20 | 65 | 2.10 | 2.00 |
| 8 | SNR 6028H-150M | 15 | ± 20 | 98 | 2.00 | 1.80 |
| 9 | SNR 6028H-220M | 22 | ± 20 | 138 | 1.60 | 1.50 |
| 10 | SNR 6028H-330M | 33 | ± 20 | 200 | 1.40 | 1.30 |
| 11 | SNR 6028H-470M | 47 | ± 20 | 280 | 1.15 | 1.06 |
| 12 | SNR 6028H-680M | 68 | ± 20 | 420 | 1.00 | 0.81 |
| 13 | SNR 6028H-101M | 100 | ± 20 | 605 | 0.80 | 0.72 |

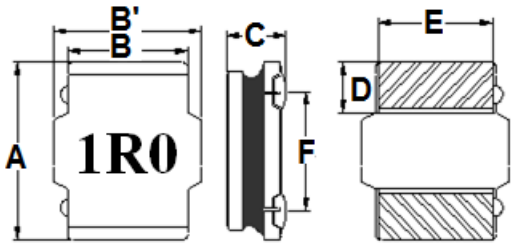
Note:
1. Test Frequency: 100KHz /1V
2. All test data referenced to 25℃ ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. The part temperature (ambient + temp rise) should not exceed 125℃. Under worst case operating . Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Special inquiries besides the above common used types can be met on your requirement.

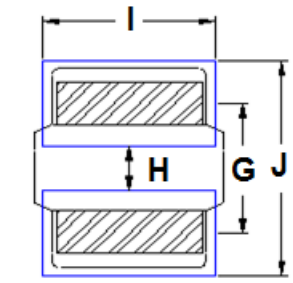
Shielded SMD Power Coils

# SNR 6045 JNR 8040

SCHMID-M EMC & Inductors

## DIMENSIONS


Recommended Pattern

mm

| No | Part No. | A | B | B' | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SNR 6045H | 6.0±0.3 | 6.0±0.4 | 4.8±0.2 | 4.2±0.3 | 1.7±0.3 | 4.5±0.3 | 4.25±0.3 | 4.25 | 1.8 | 4.8 | 6.5 |
| 2 | SNR8040H≤10uH | 8.0±0.3 | 8.0±0.3 | 6.3±0.2 | 3.9±0.3 | 2.0±0.3 | 6.0±0.3 | 5.5±0.3 | 5.5 | 2.5 | 6.3 | 8.5 |
| | SNR8040H>10uH | | | | 3.7±0.3 | | | | | | | |

## SERIES LIST

| No | Part No. | L (μH) | TOL. (%) | RDC (mΩ) ±20% | I sat (A) Typ. | I rms (A) Typ. |
|---|---|---|---|---|---|---|
| 1 | SNR 6045H-R36M | 0.36 | ± 20 | 4.8 | 18.00 | 9.00 |
| 2 | SNR 6045H-R47M | 0.47 | ± 20 | 6.8 | 17.00 | 8.60 |
| 3 | SNR 6045H-R82M | 0.82 | ± 20 | 8.5 | 14.50 | 8.20 |
| 4 | SNR 6045H-1R0M | 1.0 | ± 20 | 10.0 | 13.50 | 8.00 |
| 5 | SNR 6045H-1R2M | 1.2 | ± 20 | 10.5 | 12.50 | 7.50 |
| 6 | SNR 6045H-1R3M | 1.3 | ± 20 | 10.5 | 12.50 | 7.50 |
| 7 | SNR 6045H-1R5M | 1.5 | ± 20 | 11.7 | 12.00 | 7.00 |
| 8 | SNR 6045H-1R8M | 1.8 | ± 20 | 12.0 | 11.00 | 6.80 |
| 9 | SNR 6045H-2R0M | 2.0 | ± 20 | 13.5 | 10.50 | 6.50 |
| 10 | SNR 6045H-2R2M | 2.2 | ± 20 | 15.0 | 9.50 | 6.00 |
| 11 | SNR 6045H-2R3M | 2.3 | ± 20 | 16.0 | 9.30 | 5.80 |
| 12 | SNR 6045H-3R0M | 3.0 | ± 20 | 20.0 | 8.00 | 5.20 |
| 13 | SNR 6045H-3R3M | 3.3 | ± 20 | 21.0 | 7.80 | 5.00 |
| 14 | SNR 6045H-3R6M | 3.6 | ± 20 | 22.5 | 7.40 | 4.90 |
| 15 | SNR 6045H-4R7M | 4.7 | ± 20 | 26.0 | 6.80 | 4.50 |
| 16 | SNR 6045H-5R6M | 5.6 | ± 20 | 31.0 | 6.40 | 4.10 |
| 17 | SNR 6045H-6R3M | 6.3 | ± 20 | 33.0 | 5.90 | 3.80 |
| 18 | SNR 6045H-6R8M | 6.8 | ± 20 | 34.0 | 5.70 | 3.60 |
| 19 | SNR 6045H-8R2M | 8.2 | ± 20 | 46.0 | 5.10 | 3.40 |
| 20 | SNR 6045H-100M | 10 | ± 20 | 52.0 | 4.60 | 3.20 |
| 21 | SNR 6045H-150M | 15 | ± 20 | 71.0 | 3.80 | 2.80 |
| 22 | SNR 6045H-180M | 18 | ± 20 | 80.0 | 3.40 | 2.60 |
| 23 | SNR 6045H-220M | 22 | ± 20 | 96.0 | 3.30 | 2.30 |
| 24 | SNR 6045H-330M | 33 | ± 20 | 145 | 2.50 | 1.80 |
| 25 | SNR 6045H-470M | 47 | ± 20 | 200 | 2.00 | 1.60 |
| 26 | SNR 6045H-560M | 56 | ± 20 | 230 | 1.80 | 1.40 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 27 | SNR 6045H-680M | 68 | ± 20 | 305 | 1.60 | 1.10 |
| 28 | SNR 6045H-820M | 82 | ± 20 | 365 | 1.50 | 0.98 |
| 29 | SNR 6045H-101M | 100 | ± 20 | 456 | 1.33 | 0.92 |
| 30 | SNR 6045H-121M | 120 | ± 20 | 500 | 1.20 | 0.85 |
| 31 | SNR 6045H-151M | 150 | ± 20 | 626 | 1.10 | 0.75 |
| 32 | SNR 6045H-181M | 180 | ± 20 | 745 | 1.00 | 0.68 |
| 33 | SNR 6045H-221M | 220 | ± 20 | 900 | 0.88 | 0.60 |
| 34 | SNR 6045H-331M | 330 | ± 20 | 1400 | 0.60 | 0.55 |
| 35 | SNR 6045H-471M | 470 | ± 20 | 2050 | 0.50 | 0.40 |
| 1 | SNR 8040H-1R0M | 1.0 | ± 20 | 8.2 | 13.80 | 8.50 |
| 2 | SNR 8040H-1R2M | 1.2 | ± 20 | 8.2 | 12.80 | 8.30 |
| 3 | SNR 8040H-1R4M | 1.4 | ± 20 | 10 | 11.80 | 8.20 |
| 4 | SNR 8040H-1R5M | 1.5 | ± 20 | 10 | 11.50 | 8.00 |
| 5 | SNR 8040H-1R6M | 1.6 | ± 20 | 10 | 11.50 | 8.00 |
| 6 | SNR 8040H-2R0M | 2.0 | ± 20 | 11 | 10.20 | 7.50 |
| 7 | SNR 8040H-2R2M | 2.2 | ± 20 | 12 | 9.80 | 7.40 |
| 8 | SNR 8040H-2R7M | 2.7 | ± 20 | 13 | 9.00 | 7.00 |
| 9 | SNR 8040H-3R3M | 3.3 | ± 20 | 15 | 8.00 | 6.60 |
| 10 | SNR 8040H-4R7M | 4.7 | ± 20 | 20 | 6.70 | 5.80 |
| 11 | SNR 8040H-5R6M | 5.6 | ± 20 | 22 | 6.20 | 5.40 |
| 12 | SNR 8040H-6R8M | 6.8 | ± 20 | 25 | 5.60 | 5.10 |
| 13 | SNR 8040H-8R2M | 8.2 | ± 20 | 30 | 5.30 | 4.80 |
| 14 | SNR 8040H-100M | 10 | ± 20 | 33 | 5.00 | 4.60 |
| 15 | SNR 8040H-150M | 15 | ± 20 | 50 | 4.00 | 3.60 |
| 16 | SNR 8040H-220M | 22 | ± 20 | 73 | 3.10 | 2.90 |
| 17 | SNR 8040H-330M | 33 | ± 20 | 100 | 2.60 | 2.30 |
| 18 | SNR 8040H-470M | 47 | ± 20 | 135 | 2.20 | 2.00 |
| 19 | SNR 8040H-560M | 56 | ± 20 | 160 | 1.90 | 1.75 |
| 20 | SNR 8040H-680M | 68 | ± 20 | 205 | 1.75 | 1.65 |
| 21 | SNR 8040H-820M | 82 | ± 20 | 230 | 1.60 | 1.40 |
| 22 | SNR 8040H-101M | 100 | ± 20 | 300 | 1.45 | 1.20 |
| 23 | SNR 8040H-121M | 120 | ± 20 | 350 | 1.30 | 1.10 |
| 24 | SNR 8040H-151M | 150 | ± 20 | 410 | 1.20 | 0.98 |
| 25 | SNR 8040H-181M | 181 | ± 20 | 490 | 1.04 | 0.91 |
| 26 | SNR 8040H-221M | 220 | ± 20 | 610 | 0.99 | 0.85 |
| 27 | SNR 8040H-331M | 330 | ± 20 | 850 | 0.75 | 0.70 |
| 28 | SNR 8040H-471M | 470 | ± 20 | 1300 | 0.60 | 0.63 |

Note:

1. Test Frequency: 1MHz /1V ，100kHz/JNR 8040H 331~471
2. All test data referenced to 25℃ ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃
5. The part temperature (ambient + temp rise) should not exceed 125℃. Under worst case operating . Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
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