



### ■ Features:

- Low profile construction and miniature size
- Magnetic shielded construction
- High current saturation
- For new generation portable product D/D converter unit

### ■ Applications:

- Notebooks, desktop computers, servers, graphic cards.
- Blue -ray disc recorders, set top box , Automotive systems.
- Portable gaming devices, personal navigation systems, personal multimedia devices

### ■ Parts code:

**SNR 6045**

Type

**4R7**

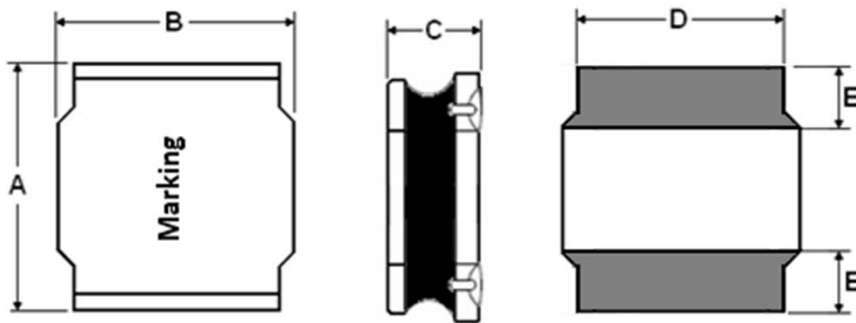
Inductance code

**M**

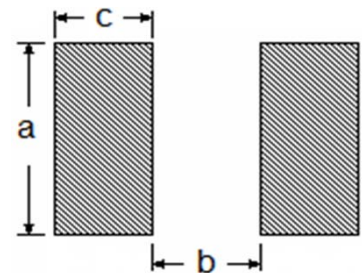
Tolerance: M : ± 20%

N : ± 30%

### ■ Outline Dimension:

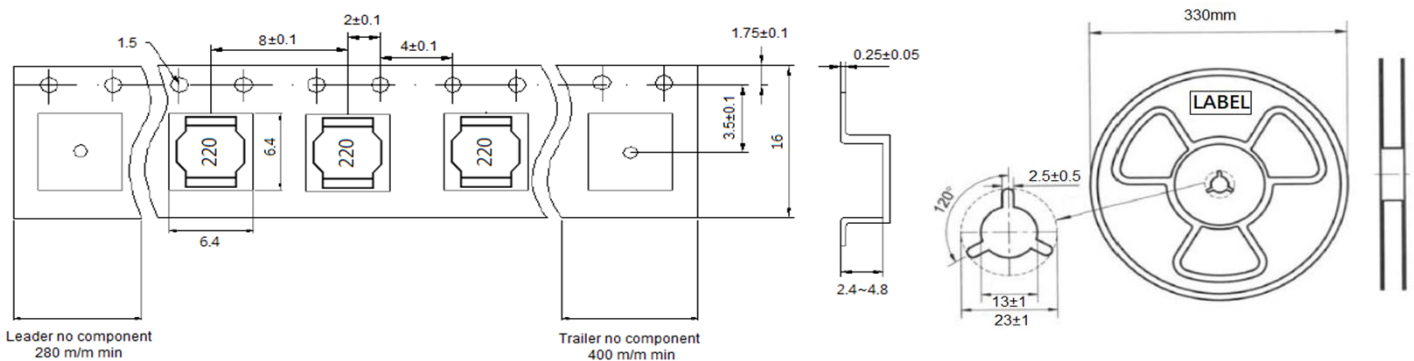


### ■ Recommended Land Pattern:



Dimensions in mm

| TYPE     | A       | B       | C       | D        | E       | a       | b       | c       |
|----------|---------|---------|---------|----------|---------|---------|---------|---------|
| SNR 6020 | 6.0±0.2 | 6.0±0.2 | 2.1 max | 5.7 Ref. | 1.8±0.3 | 5.7 Typ | 2.4 Typ | 1.8 Typ |
| SNR 6028 | 6.0±0.2 | 6.0±0.2 | 3.0 max | 5.7 Ref. | 1.8±0.3 | 5.7 Typ | 2.4 Typ | 1.8 Typ |
| SNR 6045 | 6.0±0.2 | 6.0±0.2 | 4.7 max | 5.7 Ref. | 1.8±0.3 | 5.7 Typ | 2.4 Typ | 1.8 Typ |

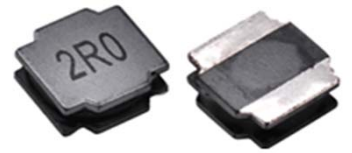


### ■ Package: Q'TY / Reel

SNR-6020--2.5K/pcs

SNR-6028--2K/pcs

SNR-6045--1.5K/pcs



6.0X6.0X2.0

## Specifications

| SNR 6020       |            |                  |           |                    |                     |
|----------------|------------|------------------|-----------|--------------------|---------------------|
| Flic No.       | L          | DCR ( $\Omega$ ) | SRF (MHz) | Stauration Current | Heat Rating Current |
|                | ( $\mu$ H) | Max              | Tpy.      | Isat (A)           | Irms (A)            |
| SNR 6020- R68N | 0.68       | 0.017            | 115       | 6.55               | 3.80                |
| SNR 6020- R82N | 0.82       | 0.017            | 110       | 5.30               | 3.80                |
| SNR 6020- 1R0N | 1.0        | 0.020            | 100       | 4.15               | 3.50                |
| SNR 6020- 1R5N | 1.5        | 0.022            | 79        | 4.25               | 3.20                |
| SNR 6020- 2R2N | 2.2        | 0.028            | 61        | 3.75               | 2.75                |
| SNR 6020- 3R3N | 3.3        | 0.035            | 51        | 3.15               | 2.60                |
| SNR 6020- 4R7M | 4.7        | 0.058            | 41        | 3.00               | 2.00                |
| SNR 6020- 6R8M | 6.8        | 0.079            | 31        | 2.20               | 1.80                |
| SNR 6020- 100M | 10         | 0.105            | 27        | 1.75               | 1.40                |
| SNR 6020- 120M | 12         | 0.120            | 25        | 1.45               | 1.30                |
| SNR 6020- 150M | 15         | 0.145            | 21        | 1.20               | 1.20                |
| SNR 6020- 180M | 18         | 0.180            | 18        | 1.20               | 1.08                |
| SNR 6020- 220M | 22         | 0.204            | 16        | 1.05               | 1.00                |
| SNR 6020- 330M | 33         | 0.300            | 11        | 0.95               | 0.64                |
| SNR 6020- 470M | 47         | 0.430            | 10        | 0.70               | 0.80                |

Notes: Tolerance: M ( $\pm 20\%$ ), N ( $\pm 30\%$ )

Test Ferquency: 100K/1V

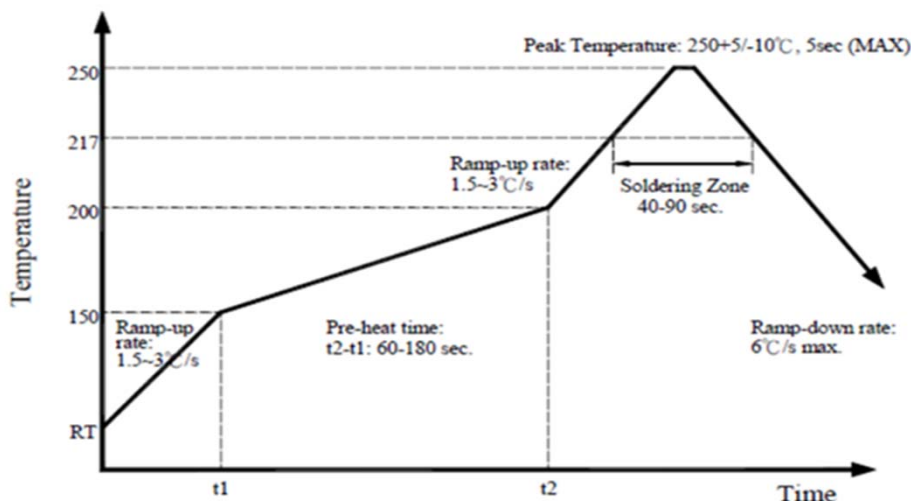
Isat: Based on Inductance decrease 30%

Irms: Based on Temperature increase 40°C

Operating temperature range: -40°C ~ +125°C

Storage Temp: -40°C ~ +125°C

Recommended Lead -Free IR Reflow Conditions:





6.0X6.0X2.8

## ■ Specifications

| SNR 6028       |        |         |           |                    |                     |
|----------------|--------|---------|-----------|--------------------|---------------------|
| Flic No.       | L      | DCR (Ω) | SRF (MHz) | Stauration Current | Heat Rating Current |
|                | ( μH ) | Max     | Tpy.      | Isat (A)           | Irms (A)            |
| SNR 6028- 1R0N | 1.0    | 0.012   | 70        | 5.75               | 5.20                |
| SNR 6028- 1R5N | 1.5    | 0.015   | 65        | 4.58               | 4.58                |
| SNR 6028- 2R2N | 2.2    | 0.020   | 48        | 3.75               | 3.75                |
| SNR 6028- 3R3N | 3.3    | 0.025   | 41        | 3.48               | 3.48                |
| SNR 6028- 4R7M | 4.7    | 0.030   | 35        | 3.08               | 3.08                |
| SNR 6028- 6R8M | 6.8    | 0.047   | 27        | 2.40               | 2.40                |
| SNR 6028- 100M | 10     | 0.072   | 23        | 1.95               | 1.95                |
| SNR 6028- 120M | 12     | 0.080   | 18        | 1.85               | 1.85                |
| SNR 6028- 150M | 15     | 0.125   | 18        | 1.45               | 1.45                |
| SNR 6028- 180M | 18     | 0.120   | 15        | 1.45               | 1.45                |
| SNR 6028- 220M | 22     | 0.140   | 14        | 1.40               | 1.40                |
| SNR 6028- 330M | 33     | 0.185   | 12        | 1.22               | 1.22                |
| SNR 6028- 470M | 47     | 0.315   | 10        | 1.06               | 1.06                |
| SNR 6028- 680M | 68     | 0.360   | 7.7       | 0.86               | 0.86                |
| SNR 6028- 820M | 82     | 0.500   | 7.7       | 0.70               | 0.70                |
| SNR 6028- 101M | 100    | 0.500   | 7.1       | 0.70               | 0.70                |
| SNR 6028- 102M | 1000   | 5.800   | 1.5       | 0.20               | 0.20                |

■ Notes: Tolerance: M (± 20%) , N (± 30%)

■ Test Ferquency: 100K/1V

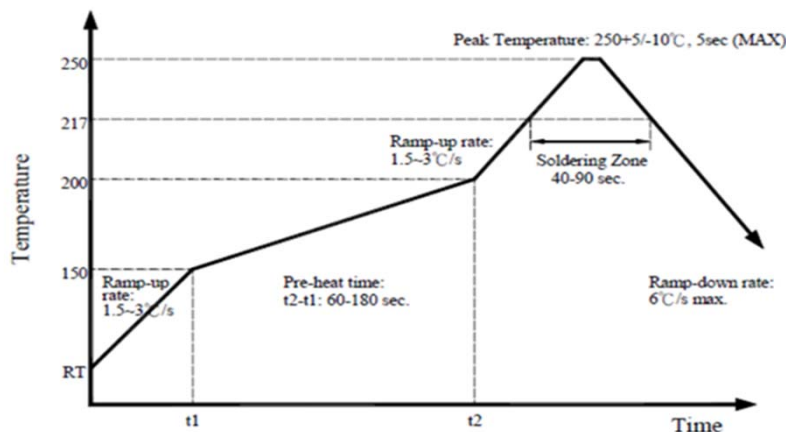
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Operating temperature range: -40°C ~ +125°C

Storage Temp: -40°C ~ +125°C

■ Recommended Lead -Free IR Reflow Conditions:





6.0X6.0X4.5

## ■ Specifications

| SNR 6045       |            |                  |           |                    |                     |
|----------------|------------|------------------|-----------|--------------------|---------------------|
| Flic No.       | L          | DCR ( $\Omega$ ) | SRF (MHz) | Stauration Current | Heat Rating Current |
|                | ( $\mu$ H) | Max              | Tpy.      | Isat (A)           | Irms (A)            |
| SNR 6045- 1R0N | 1.0        | 0.011            | 100       | 9.85               | 5.14                |
| SNR 6045- 1R5N | 1.5        | 0.012            | 65        | 8.80               | 4.95                |
| SNR 6045- 2R2N | 2.2        | 0.014            | 52        | 6.75               | 4.60                |
| SNR 6045- 3R3N | 3.3        | 0.024            | 32        | 5.90               | 3.70                |
| SNR 6045- 4R7M | 4.7        | 0.031            | 24        | 4.97               | 3.30                |
| SNR 6045- 6R8M | 6.8        | 0.035            | 20        | 3.90               | 3.00                |
| SNR 6045- 100M | 10         | 0.048            | 15        | 3.20               | 2.45                |
| SNR 6045- 150M | 15         | 0.068            | 12        | 2.50               | 2.05                |
| SNR 6045- 220M | 22         | 0.089            | 10        | 2.05               | 1.80                |
| SNR 6045- 330M | 33         | 0.137            | 7.8       | 1.65               | 1.45                |
| SNR 6045- 470M | 47         | 0.200            | 6.4       | 1.40               | 1.20                |
| SNR 6045- 560M | 56         | 0.221            | 6.4       | 1.30               | 1.10                |
| SNR 6045- 680M | 68         | 0.289            | 6.4       | 1.20               | 1.00                |
| SNR 6045- 101M | 100        | 0.433            | 4.2       | 0.95               | 0.80                |
| SNR 6045- 121M | 120        | 0.484            | 4.2       | 0.85               | 0.77                |
| SNR 6045- 151M | 150        | 0.580            | 4.2       | 0.80               | 0.70                |
| SNR 6045- 221M | 220        | 0.834            | 3.5       | 0.70               | 0.59                |
| SNR 6045- 331M | 330        | 1.270            | 2.8       | 0.57               | 0.57                |
| SNR 6045- 471M | 680        | 1.800            | 2.0       | 0.50               | 0.42                |
| SNR 6045- 681M | 680        | 2.500            | 1.7       | 0.42               | 0.33                |
| SNR 6045- 102M | 1000       | 4.500            | 1.4       | 0.30               | 0.30                |
| SNR 6045- 152M | 1500       | 6.500            | 0.8       | 0.24               | 0.21                |

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