

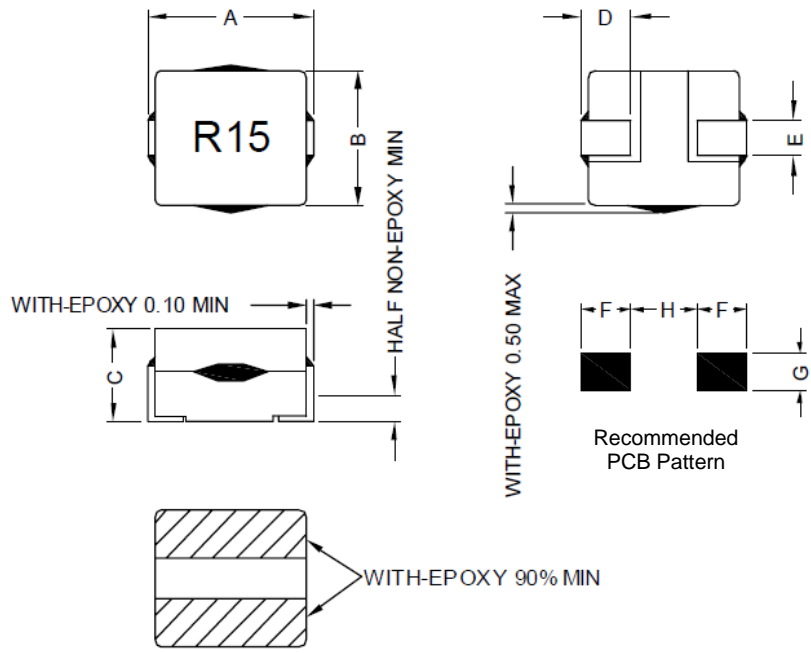
1. Part No. Expression

S M C 1 0 0 8 R 1 5 M A F

(a) (b) (c) (d)(e)(f)

(a) Series Code (d) Tolerance Code
 (b) Dimension Code (e) Special Products
 (c) Inductance Code (f) RoHS Compliant

2. Configuration & Dimensions (Unit: mm)



| A | B | C | D | E | F | G | H |
|-----------|----------|----------|-----------|-----------|----------|----------|----------|
| 10.40 Max | 8.00 Max | 7.00 Max | 2.54±0.30 | 2.30±0.20 | 3.29 Ref | 2.79 Ref | 4.32 Ref |

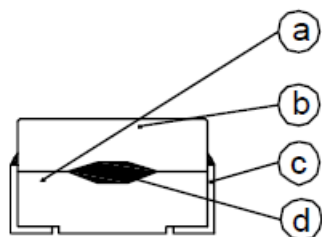
3. Schematic



NOTE: Specifications subject to change without notice. Please check our website for latest information.



4. Material List



- a) Core
- b) Core
- c) Clip
- d) Adhesive

5. General Specification

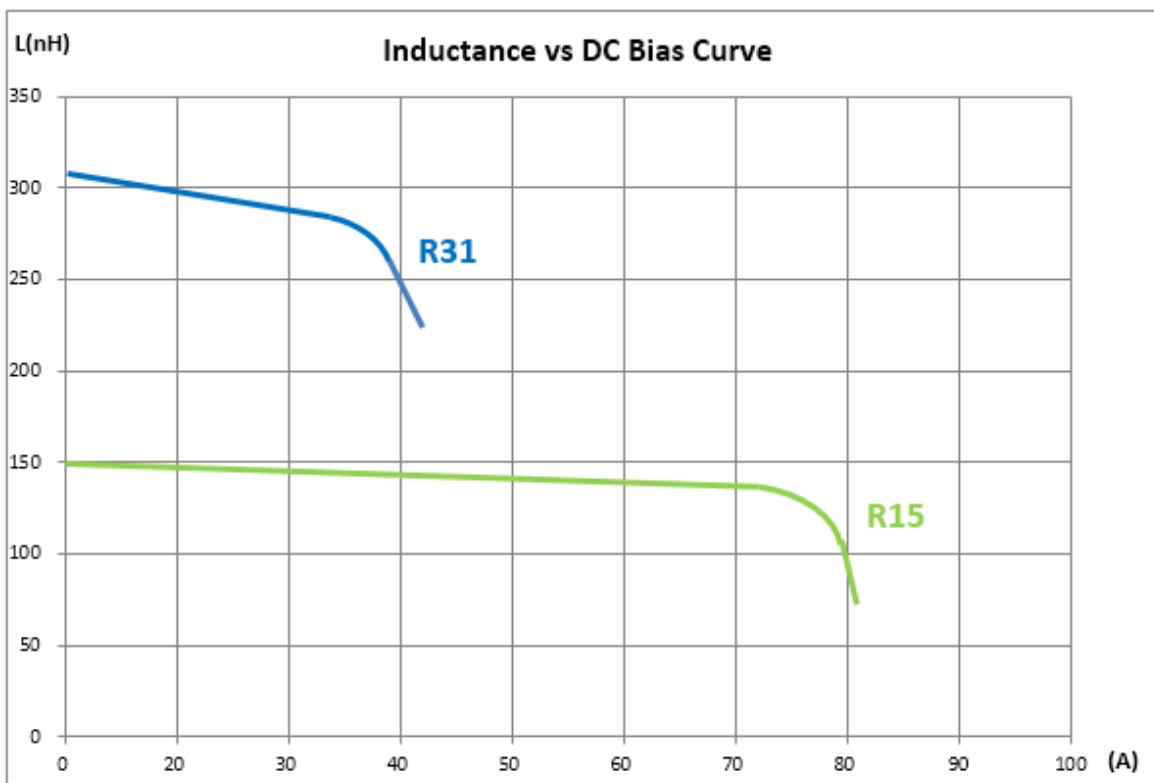
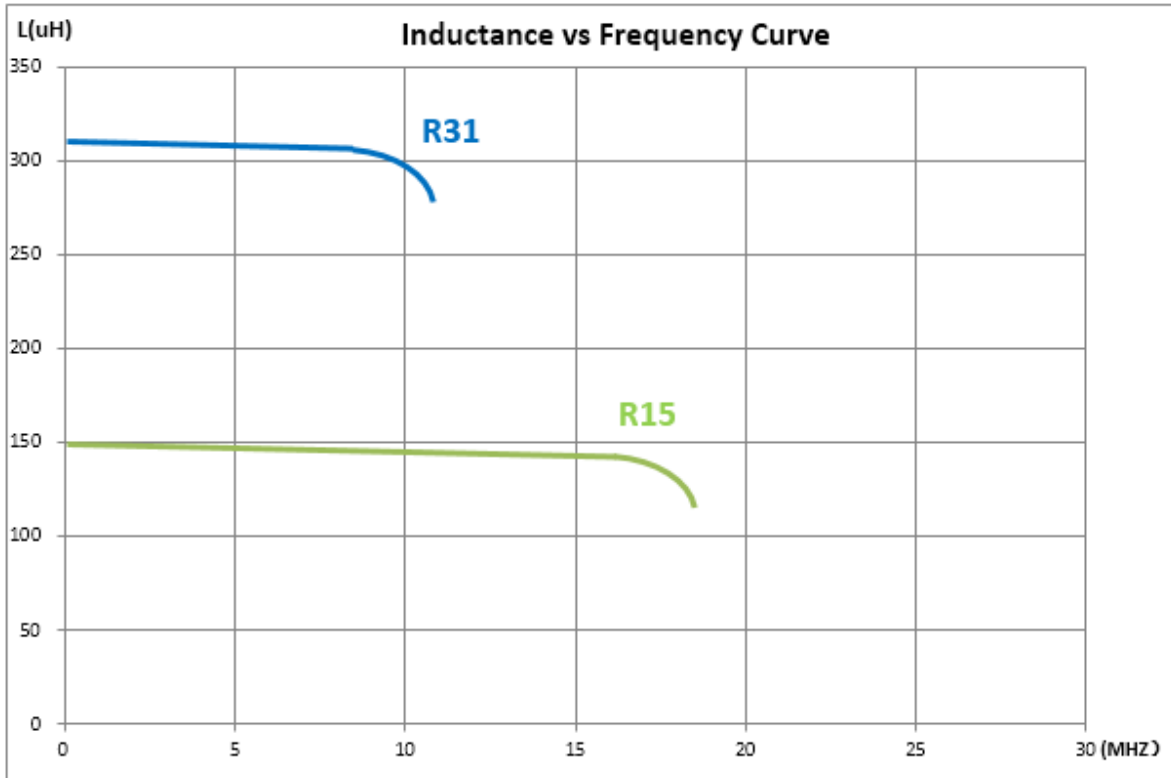
- a) Temp. Rise: 40°C Max. at Rated Current (I_{rms})
- b) $\Delta L/L_{0A}$: 20% Max. at I_{sat}
- c) Operating Temperature: -40°C to +125°C
- d) Storage Temperature: -40°C to +125°C
- e) Storage condition (component in its packaging)
 - i) Temperature: -10 to +40° C
 - ii) Humidity: 60% RH

6. Electrical Characteristics

| Part Number | Inductance (μ H) $\pm 20\%$ | Test Frequency (Hz) | DC Resistance (m Ω) | I _{rms} (A) | I _{sat} (A) |
|---------------|--|---------------------------|--------------------------------|-------------------------|-------------------------|
| SMC1008R15MAF | 0.15 | 1V/100K | 0.41 \pm 10% | 70 | 70 |
| SMC1008R31MAF | 0.31 | 1V/100K | 0.48 \pm 8% | 51 | 32 |

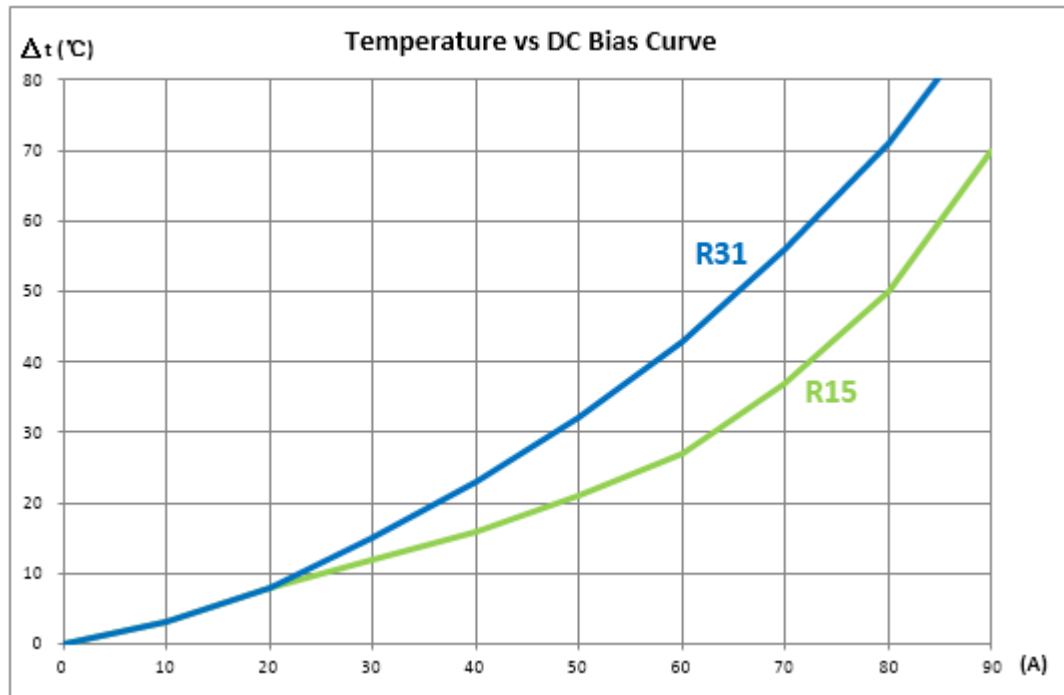
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7. Characteristics Curves



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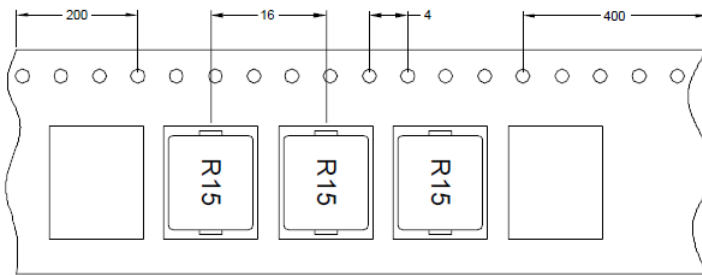
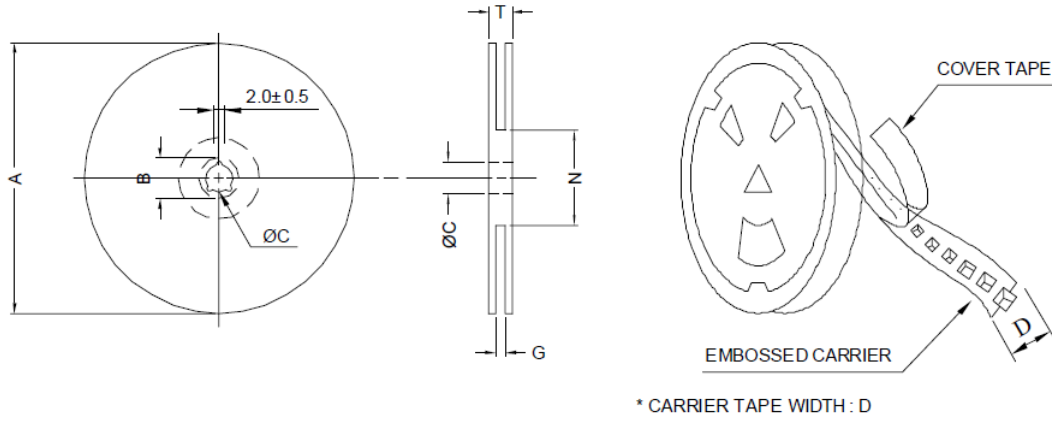


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8. Packaging Information

8-1. Configuration



8-2. Dimensions (Unit: mm)

| Style | A | B | C | D | G | N | T |
|-------|-----|--------|--------|----|---------|---------|------|
| 13-24 | 330 | 21±0.8 | 13±0.5 | 24 | 26 Max. | 50 Min. | 30.4 |

8-3. Quantity & G.W. Per Package

| Inner: Reel | | | Outer: Carton | | |
|-------------|----------|-------|---------------|----------|---------------|
| Qty (pcs) | G.W (gw) | Style | Qty (pcs) | G.W (kg) | Size (cm) |
| 500 | 1575 | 13-24 | 2000 | 7.3 | 38 x 36.5 x21 |

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