



# SPECIFICATION FOR APPROVAL

**CUSTOMER:** Blume Elektronik

**CUSTOMER P/N :** \_\_\_\_\_

**PART NO. :** LML1040AA-3R3MR-03 Rev.A

**MODEL NAME:** Molding SMD Power Inductors

**DATE:** 2025/02/21

| Approved | Checked | Recorder |
|----------|---------|----------|
|          |         |          |

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## Index

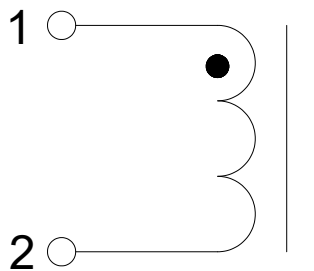
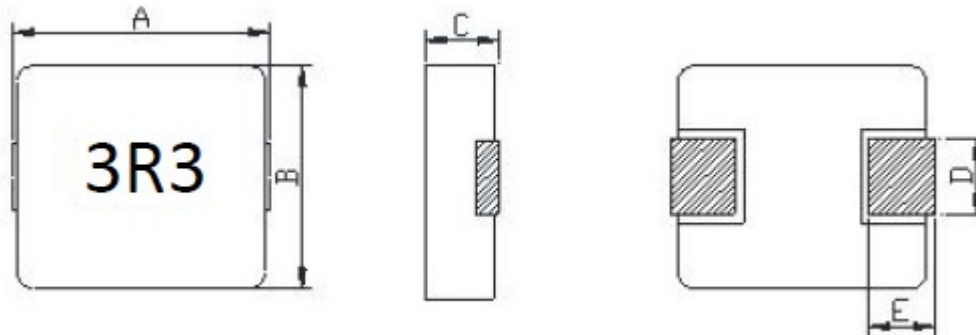
|                                     |     |
|-------------------------------------|-----|
| 1. Record of Revision-----          | 3   |
| 2. Specification and Dimension----- | 4   |
| 3. Material Certificate List-----   | 5   |
| 4. Advice Soldering Profile-----    | 6   |
| 5. Packing Specification-----       | 7~8 |

| Record of Revision |               |            |          |
|--------------------|---------------|------------|----------|
| Rev                | Project       | Date       | Recorder |
| A                  | New Released. | 2025/02/21 | May      |
|                    |               |            |          |
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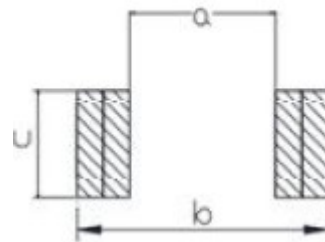
## Molding SMD Power Inductors

- Halogen Free & ROHS compliant
- Low profile and low DCR
- Operating Temperature -55°C to +125°C
- Frequency range up to 3MHz
- Minimized acoustic noise and minimized leakage flux noise

## Dimensions: Unit: mm



SCHEMATIC DRAWING



SUGGESTED PCB LAYOUT

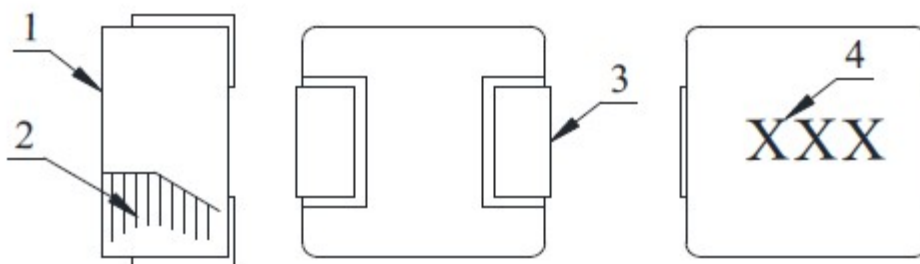
| Series    | A         | B      | C        | D       | E       | a        | b        | c        |
|-----------|-----------|--------|----------|---------|---------|----------|----------|----------|
| LML1040AA | 11.5 Max. | 10±0.3 | 4.0 Max. | 3.0±0.5 | 2.0±0.5 | 5.4 Typ. | 13.6Typ. | 4.1 Typ. |

## Electrical Specifications:

| P/N                | Inductance (μH)<br>100KHZ/1.0V | Tolerance(±%) | DCR(mΩ) Max. | Isat (Typ.) | Irms<br>( Typ.) |
|--------------------|--------------------------------|---------------|--------------|-------------|-----------------|
| LML1040AA-3R3MR-03 | 3.3                            | ±20%          | 11.8         | 16.0        | 11.0            |

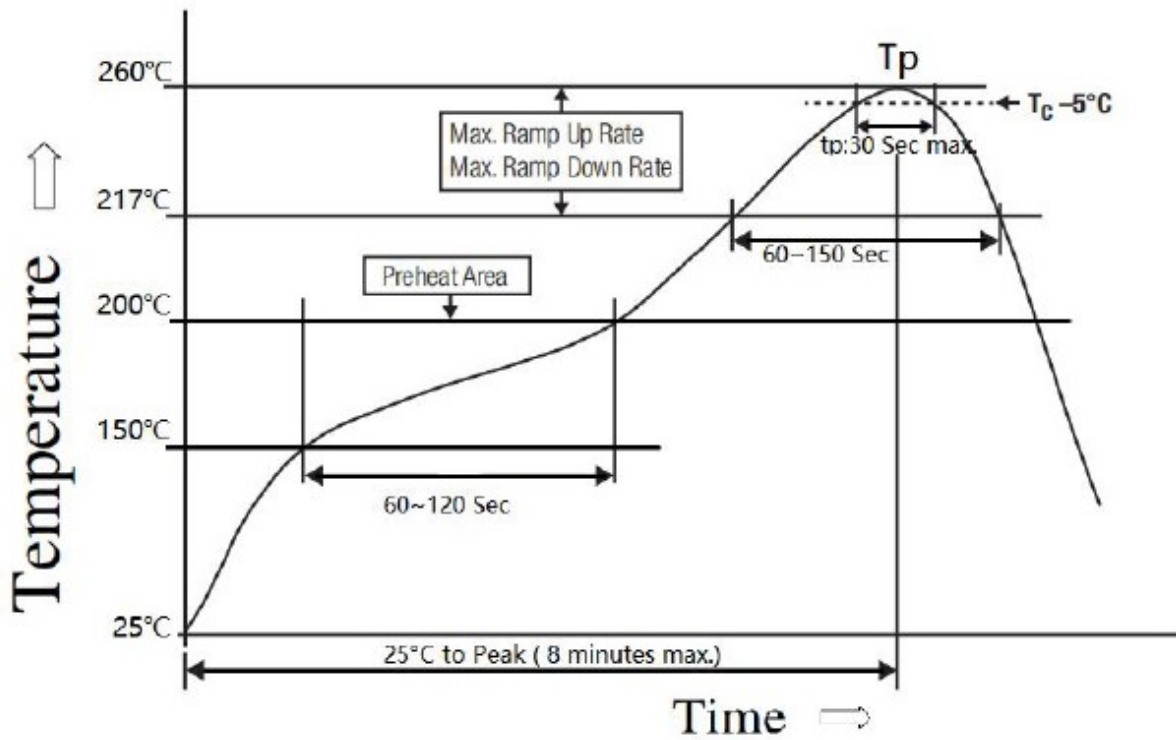
- 1) Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ\text{C}$ ) from  $25^\circ\text{C}$  ambient.
- 2) Isat: DC current at which the inductance drops approximate 30% TYP from its value without Current.
- 3) Rated current: Isat or Irms, whichever is smaller.
- 4) L tested by Wayne kerr 3260B LCR meter with Wayne kerr 3265B bias current source or equivalent.
- 5) DCR tested by a Milliohm meter.
- 6) Absolute maximum voltage 30VDC.

## Material Certificate List



| ITEM   | MATERIAL      | RATING | TYPE | Temperatureclass | UL NO |
|--------|---------------|--------|------|------------------|-------|
| 1 CORE | Alloy powder  | N/A    | N/A  | /                | N/A   |
| 2 WIRE | COPPER WIRE   | N/A    | N/A  | 220°C            | N/A   |
| 3 BASE | Tinned copper | N/A    | N/A  | /                | N/A   |
| 4 INK  | Black ink     | N/A    | N/A  | /                | N/A   |

## Advice Soldering Profile



|                  |                                    |                |
|------------------|------------------------------------|----------------|
| Reflow Soldering | Tp:255~260°C Max.30 seconds ( tp ) |                |
|                  | 217°C                              | 60~150 seconds |
| Pre-Heat         | 150 ~ 200°C                        | 60~120 seconds |

## Packing Specification

|                   |                        |                                        |          |
|-------------------|------------------------|----------------------------------------|----------|
| <1>Model Number   | LML1040AA-3R3MR-03     | <2>Customer                            |          |
| <3> Product Size  |                        | <4> Version                            | 1.0      |
| <5> Package Item: | 1. Each Reel Qty       | 500 X 6 (Total Reel in Inner box)=     | 3000 PCS |
|                   | 2. Each Inner box Qty. | 3000 X 2 (Total Inner box in carton) = | 6000 PCS |

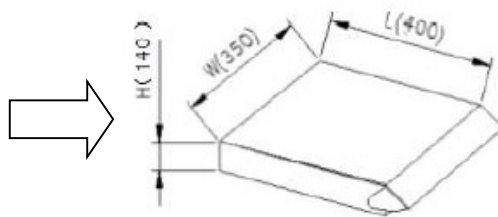
### <6>Product weight

|      |        |      |         |      |          |
|------|--------|------|---------|------|----------|
| unit | 2.25 g | N.W. | 13.5 kg | G.W. | 17.65 Kg |
|------|--------|------|---------|------|----------|

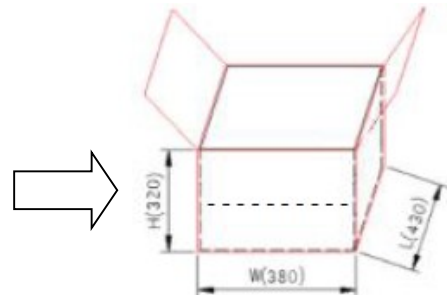
### <7> Outside Packaging:



13" 500pcs



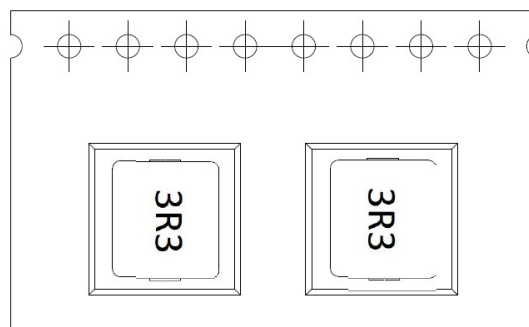
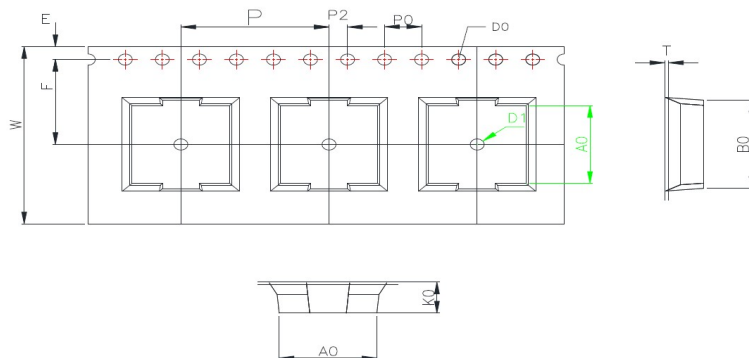
inner box Size:400mm\*350mm\*140mm



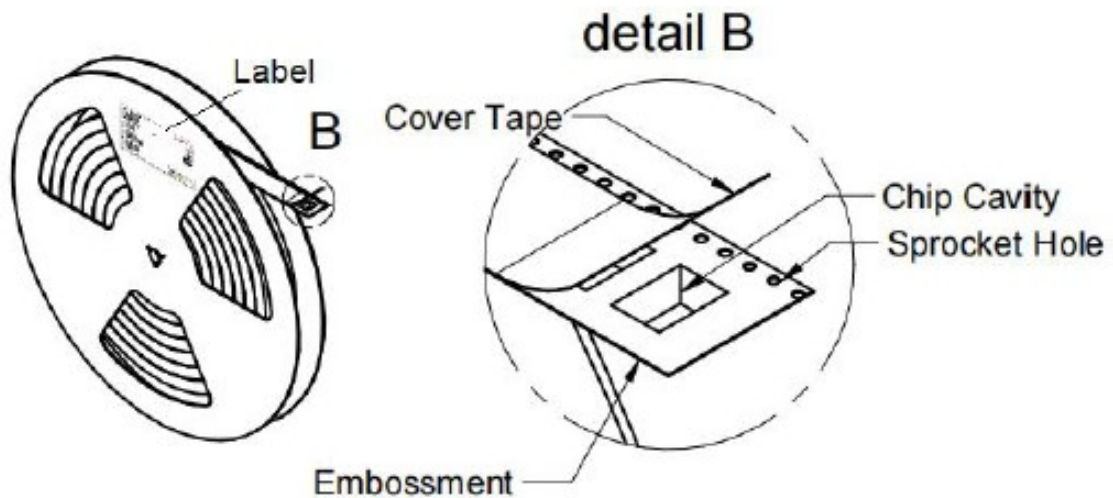
Carton Size:430mm\*380mm\*320mm

### <8> Tape and Reel: mm

| ITEM | W             | A0           | B0           | K0          | P             | E            | F             | D0           | D1           | P0           | P2           | T           |
|------|---------------|--------------|--------------|-------------|---------------|--------------|---------------|--------------|--------------|--------------|--------------|-------------|
| DIM  | 24.00<br>±0.3 | 10.70<br>typ | 12.00<br>typ | 4.30<br>typ | 16.00<br>±0.1 | 1.75<br>±0.1 | 11.50<br>±0.1 | 1.50<br>±0.1 | 2.00<br>±0.1 | 4.00<br>±0.1 | 2.00<br>±0.1 | 0.35<br>typ |



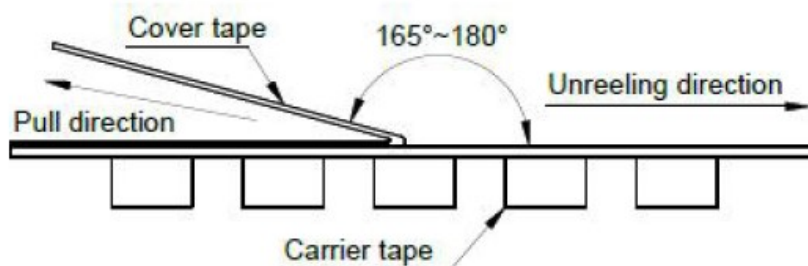
<9> Cover tape peel off condition



Peel force of top cover tape

The peel speed shall be about 300 mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3N



Tape and Reel Specifications: (Dimensions are in mm)

