

Features

- Tested and proved in RECOM filter design
- RoHS compliant
- SMD

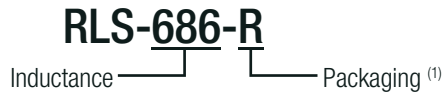
Line Inductors

RLS-686

Line Inductors for RECOM Power Supply



Model Numbering



Notes:

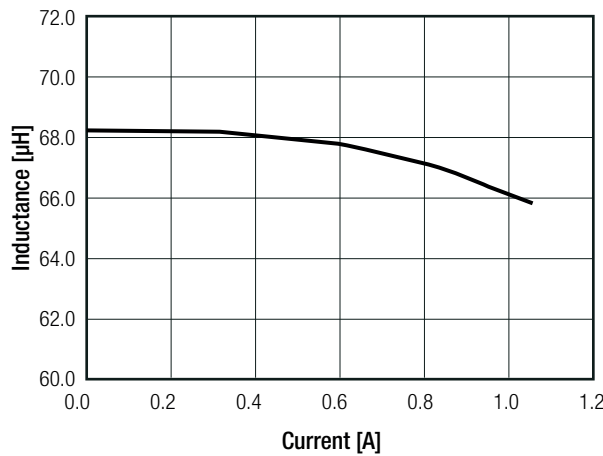
Note1: with suffix „-R“, standard packaging tape and reel without suffix optional airbag packaging

Specifications (measured @ Ta= 25°C, unless otherwise stated)

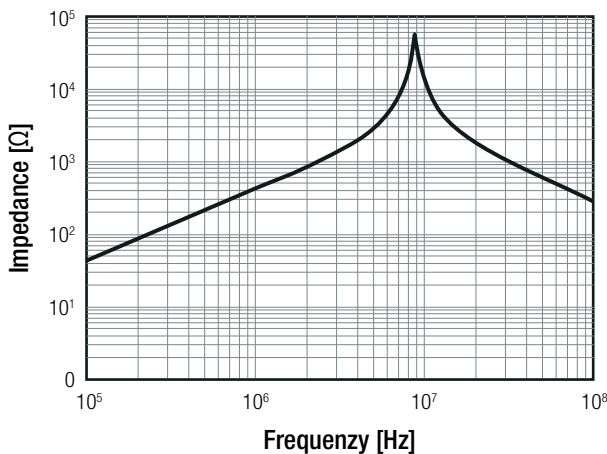
| BASIC CHARACTERISTICS | | | |
|-----------------------|------------------|---------------|------------|
| Parameter | | Condition | Value |
| Inductance | L | 100kHz/250mV | 68µH ±10% |
| DC Resistance | RDC | @ 25°C | 280mΩ max. |
| Rated Current | I _R | ΔT ≤ 40°C | 0.99A max. |
| Saturation Current | I _{sat} | I ΔL/LI < 10% | 1.05A typ. |



Inductance vs. Current graph



Impedance graph



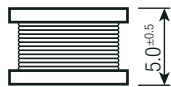
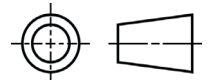
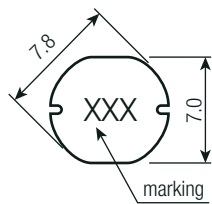
Specifications (measured @ Ta= 25°C, unless otherwise stated)

| ENVIRONMENTAL | | |
|-----------------------------|----------------|-----------------|
| Parameter | Condition | Value |
| Operating Temperature Range | with derating | -40°C to +105°C |
| Operating Humidity | non-condensing | 95% RH max. |

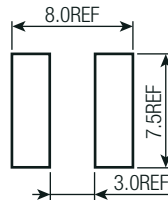
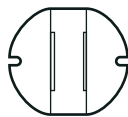
DIMENSION AND PHYSICAL CHARACTERISTICS

| Parameter | Type | Value |
|-------------------|------|-------------------|
| Dimension (LxWxH) | | 7.8 x 7.0 x 5.0mm |
| Weight | | 1.00g typ. |

Dimension Drawing (mm)



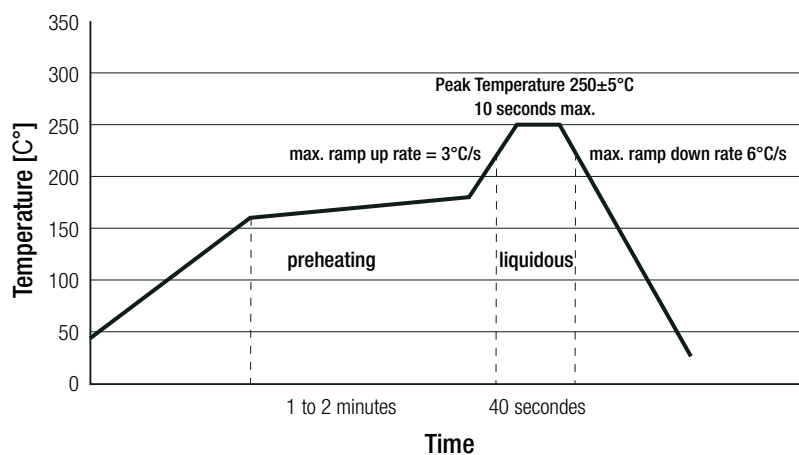
Recommended Footprint Details



Tolerance: xx.x= ±0.3mm

APPLICATION INFORMATION

Classification Reflow Profile for SMT



Specifications (measured @ Ta= 25°C, unless otherwise stated)

| PACKAGING INFORMATION | | |
|-----------------------------|----------------------------------|--|
| Parameter | Type | Value |
| Packaging Dimension (LxWxH) | tape and reel (carton) airbag | 355.0 x 340.0 x 35.0mm 120.0 x 100.0 x 30.0mm |
| Packaging Quantity | tape and reel airbag | 1000pcs 50pcs |
| Tape Width | | 16.0mm |
| Storage Temperature Range | | -55°C to +125°C |
| Storage Humidity | non-condensing | 95% RH max. |

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.