

# Features

## Line Inductors

- Tested and proved in RECOM filter design
- RoHS2+ compliant
- SMD

### Model Numbering

**RLS-686-R**  
Inductance ——— Packaging <sup>(1)</sup>

**Notes:**

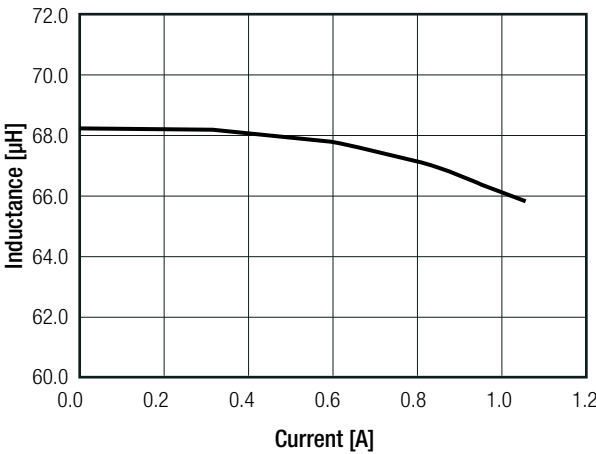
Note1: with suffix „-R“, standard packaging tape and reel  
without suffix optional airbag packaging

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

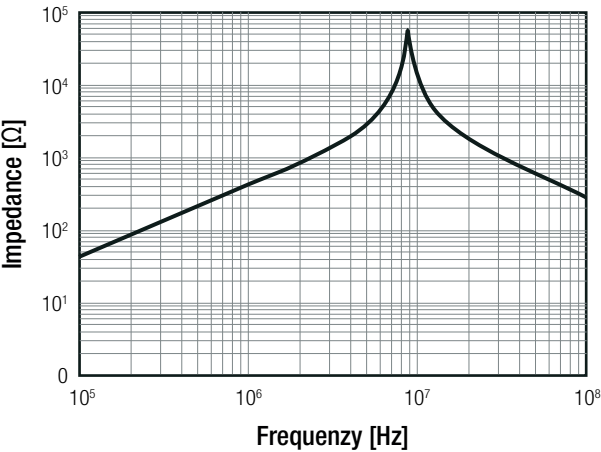
#### BASIC CHARACTERISTICS

Parameter		Condition	Value
Inductance	L	100kHz/250mV	68µH ±10%
DC Resistance	RDC	@ 25°C	280mΩ max.
Rated Current	I <sub>R</sub>	ΔT ≤ 40°C	0.99A max.
Saturation Current	I <sub>sat</sub>	I ΔL/LI < 10%	1.05A typ.

#### Inductance vs. Current graph



#### Impedance graph



## RLS-686

## Line Inductors for RECOM Power Supply



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

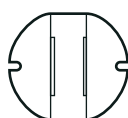
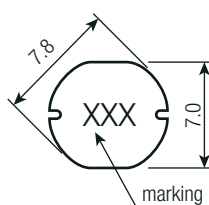
### ENVIRONMENTAL

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

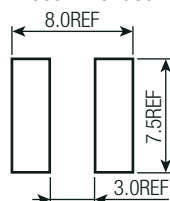
### DIMENSION AND PHYSICAL CHARACTERISTICS

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

#### Dimension Drawing (mm)



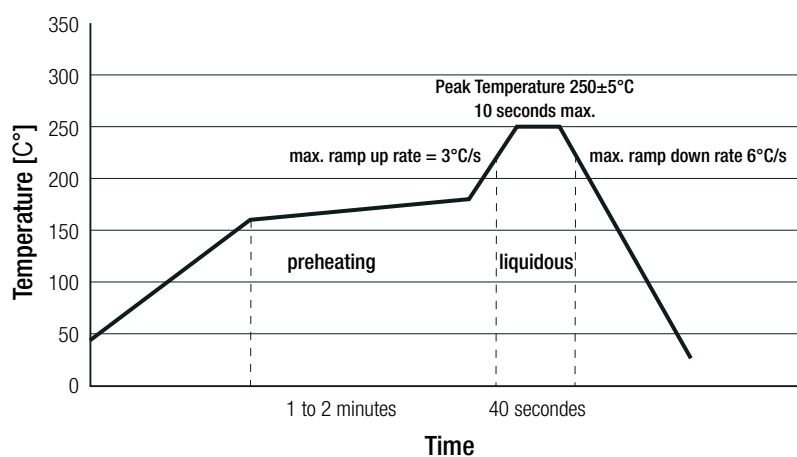
#### Recommended Footprint Details



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)	355.0 x 340.0 x 35.0mm
	airbag	120.0 x 100.0 x 30.0mm
Packaging Quantity	tape and reel	1000pcs
	airbag	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.