

Features

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

Line Inductors

RLS-186

Line Inductors for RECOM Power Supply



Model Numbering



Notes:

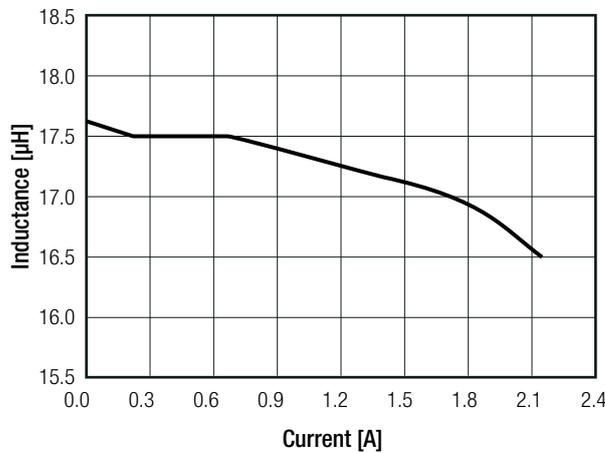
Note1: with suffix „-R“, standard packaging tape and reel without suffix optional airbag packaging

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

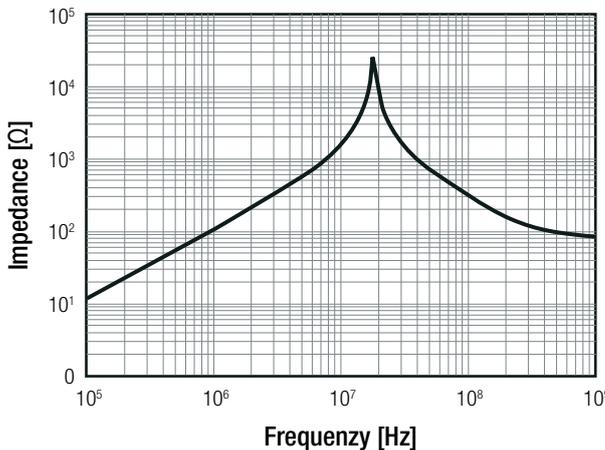
BASIC CHARACTERISTICS			
Parameter		Condition	Value
Inductance	L	100kHz/250V	18µH ±10%
DC Resistance	RDC	@ 25°C	100mΩ max.
Rated Current	I _R	ΔT ≤ 40°C	1.89A max.
Saturation Current	I _{sat}	I ΔL/LI < 10%	2.14A typ.



Inductance vs. Current graph



Impedance graph



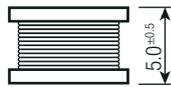
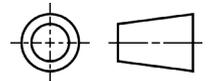
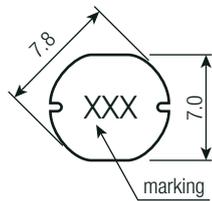
Specifications (measured @ Ta= 25°C, unless otherwise stated)

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

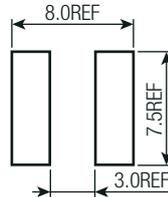
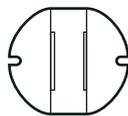
DIMENSION AND PHYSICAL CHARACTERISTICS

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

Dimension Drawing (mm)



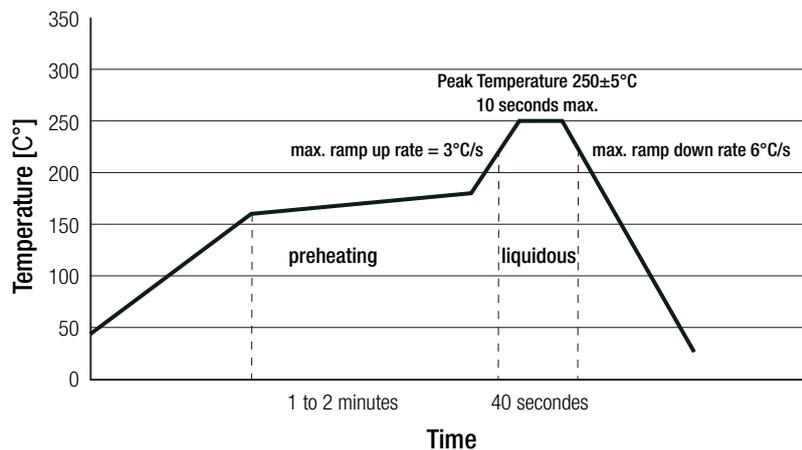
Recommended Footprint Details



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.