

Features

Line Inductors

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



RLS-186

Line Inductors for RECOM Power Supply



Model Numbering

RLS-186-R
 Inductance ——— Packaging ⁽¹⁾

Notes:

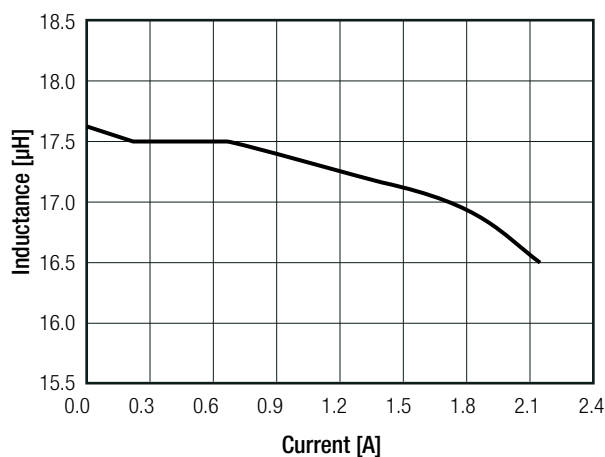
Note1: with suffix „-R“, standard packaging tape and reel
 without suffix optional airbag packaging

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

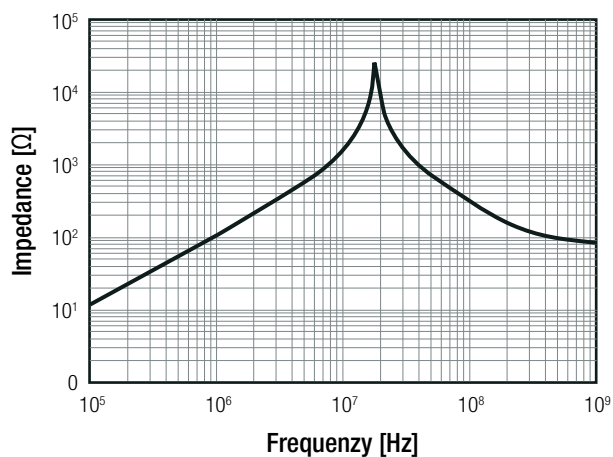
BASIC CHARACTERISTICS

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)

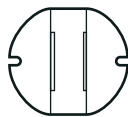
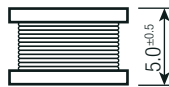
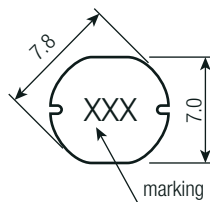
ENVIRONMENTAL

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

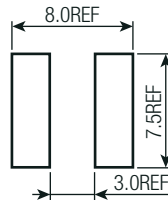
DIMENSION AND PHYSICAL CHARACTERISTICS

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

Dimension Drawing (mm)



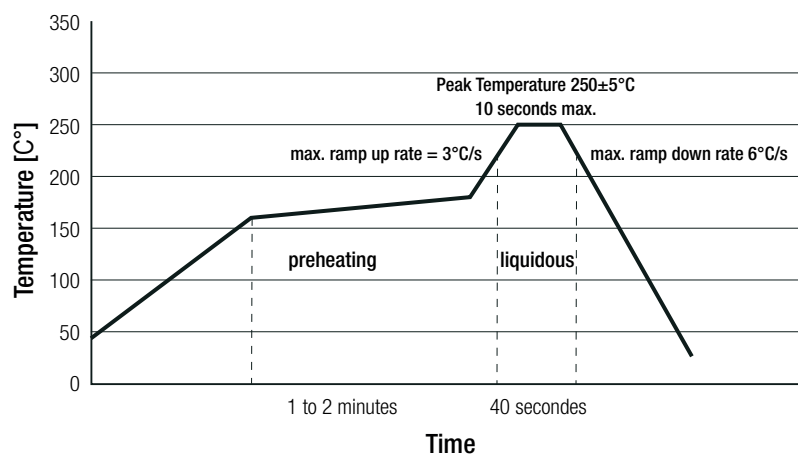
Recommended Footprint Details



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)	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.

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