

## RLS-567

# Line Inductors for RECOM Power Supply



## Features

## Line Inductors

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

### Model Numbering

**RLS-567-R**  
Inductance \_\_\_\_\_ Packaging <sup>(1)</sup>

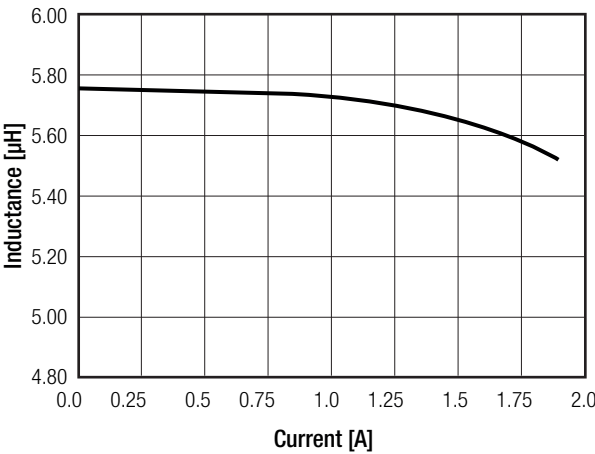
**Notes:**

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

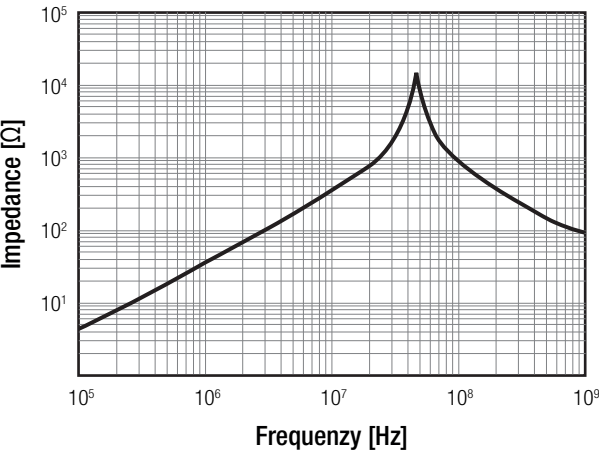
### Specifications (measured @ Ta= 25°C, unless otherwise stated)

| BASIC CHARACTERISTICS |                  |               |            |
|-----------------------|------------------|---------------|------------|
| Parameter             |                  | Condition     | Value      |
| Inductance            | L                | 100kHz/100mV  | 5.6μH ±20% |
| DC Resistance         | RDC              | @ 25°C        | 180mΩ max. |
| Rated Current         | I <sub>R</sub>   | ΔT ≤ 40°C     | 1.18A max. |
| Saturation Current    | I <sub>sat</sub> | I ΔL/LI < 10% | 1.9A 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 +125°C |
| Operating Humidity          | non-condensing | 95% RH max.     |

| DIMENSION AND PHYSICAL CHARACTERISTICS |      |                   |
|----------------------------------------|------|-------------------|
| Parameter                              | Type | Value             |
| Dimension (LxWxH)                      |      | 4.5 x 3.2 x 2.6mm |
| Weight                                 |      | 0.15g typ.        |

Dimension Drawing (mm)

4.5

3.2

5R6M

top marking

2.6

Recommended Footprint Details

4.8REF

2.0REF

3.5REF

0.7REF

Tolerance: xx.x= ±0.5mm

APPLICATION INFORMATION

Classification Reflow Profile for SMT

Temperature [C°]

350  
300  
250  
200  
150  
100  
50  
0

Time

1 to 2 minutes

40 secondes

preheating

liquidous

Peak Temperature  $250\pm 5^{\circ}\text{C}$   
10 seconds max.

max. ramp up rate =  $3^{\circ}\text{C/s}$

max. ramp down rate  $6^{\circ}\text{C/s}$

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          | 2000pcs                |
|                             | airbag                 | 50pcs                  |
| Tape Width                  |                        | 12.0mm                 |
| Storage Temperature Range   |                        | -55°C to +125°C        |
| Storage Humidity            | non-condensing         | 95% RH max.            |

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