



INDEX

SHAPES AND DIMENSIONS..... 1

PART NUMBER CODE 2

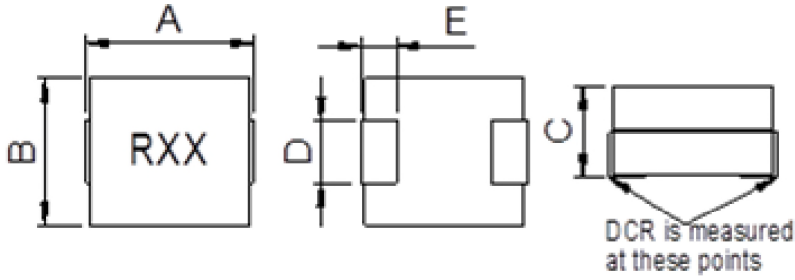
ELECTRICAL CHARACTERISTICS 3

REEL DIMENSIONS AND PACKAGING QUANTITY 4



SMT Power Inductor SIC111006-R48 series

■ SHAPES AND DIMENSIONS

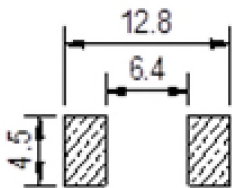


Unit: mm

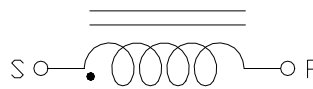
| P/N | A | B | C | D | E |
|---------------|----------------|---------------|---------------|----------------|----------------|
| SIC111006-R48 | 11.8 ± 0.3 | 9.5 ± 0.5 | 6.0 ± 0.2 | 3.94 ± 0.2 | 2.54 ± 0.5 |

Marking : XXX = Inductance

Recommend PAD Layout



Equivalent circuit





■ PART NUMBER CODE

SIC **111006** - **R18** **L** **A** - **R48**
1 **2** **3** **4** **5** **6**

1. Series Name
2. Size Code
3. Inductance(R=Decimal Point) Unit : nH ; R18 = 0.18uH = 180nH
4. Inductance tolerance: "L"±15%.
5. Soldering : A=Lead Free
6. Special code



■ ELECTRICAL CHARACTERISTICS

1. Part Number and Characteristics Table

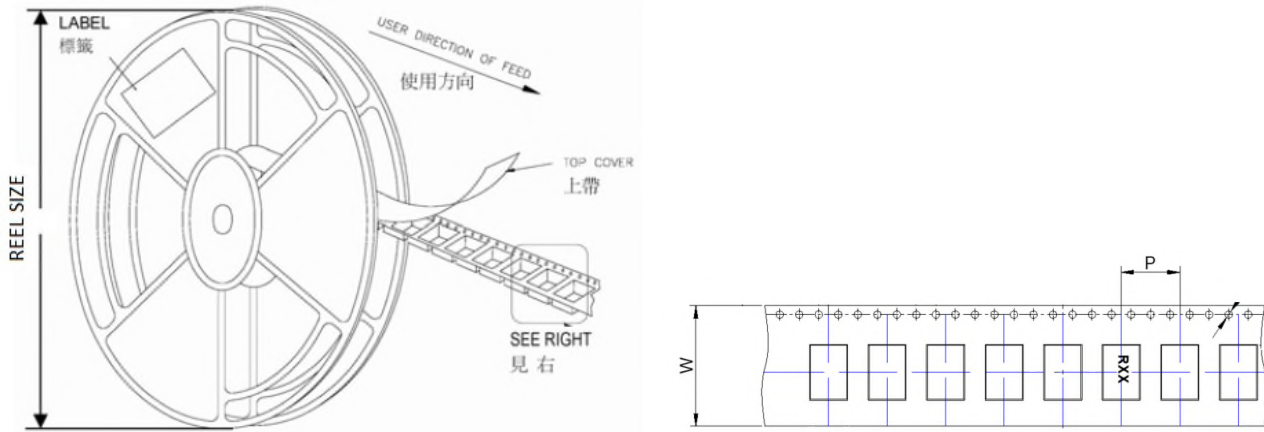
| Part number | Initial Inductance (nH) | Tolerance (±%) | DCR (mΩ) | Saturation Current @25°C (Amps)(typ) | Temperature Rise Current (Amps)(typ) |
|---------------------|-------------------------|----------------|------------|--------------------------------------|--------------------------------------|
| SIC111006-R18LA-R48 | 180.0 | 15 | 0.48± 6.5% | 60 | 36 |
| SIC111006-R23LA-R48 | 230.0 | 15 | 0.48± 6.5% | 47 | 36 |
| SIC111006-R36LA-R48 | 360.0 | 15 | 0.48± 6.5% | 30 | 36 |

Note:

- Initial Inductance: Testing at 100 KHz / 1.0 Vrms.
- Saturation Current: DC current that will cause initial Inductance to drop approximately 20%.
- Temperature Rise Current: DC current that will cause an approximate ΔT of 40°C.
- All test data is referenced to 25°C ambient.
- Operating temperature : -40~+125°C (Including self - temperature rise).



■ REEL DIMENSIONS AND PACKAGING QUANTITY



Unit: mm

| TYPE | W | P | REEL SIZE | PCS / REEL |
|---------------|----|----|--------------|------------|
| SIC111006-R48 | 24 | 12 | 330 mm (13") | 850 |