



INDEX

SHAPES AND DIMENSIONS..... 1

PART NUMBER CODE 2

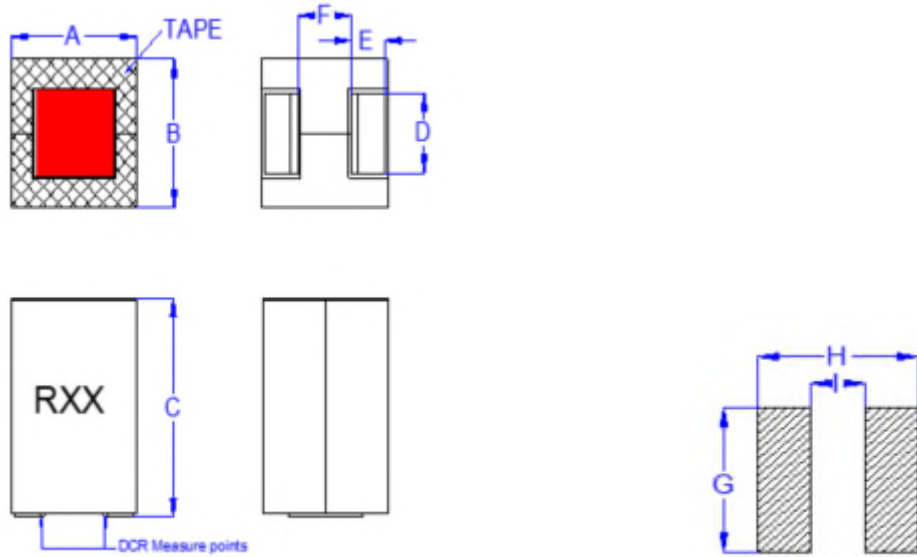
ELECTRICAL CHARACTERISTICS 3

REEL DIMENSIONS AND PACKAGING QUANTITY 4



SMT Power Inductor SIE2656510-R17 Series

■ SHAPES AND DIMENSIONS



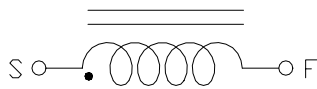
Unit: mm

Recommend PAD Layout

| P/N | A max | B max | C max | D ref | E ref | F ref | G | H | I |
|----------------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| SIE2656510-R17 | 6.5 | 6.5 | 10.0 | 3.7 | 1.8 | 2.7 | 4.2 | 6.6 | 2.6 |

Marking : XXX = Inductance

Equivalent circuit





■ PART NUMBER CODE

SIE2 656510 - R10 L A - R17
1 2 3 4 5 6

1. Series Name
2. Size Code
3. Inductance(R=Decimal Point) Unit : μH ; R10 =0.10uH
4. Inductance tolerance: "L" $\pm 15\%$; "M" $\pm 20\%$.
5. Soldering : A=Lead Free
6. Special code



■ ELECTRICAL CHARACTERISTICS

1. Part Number and Characteristics Table

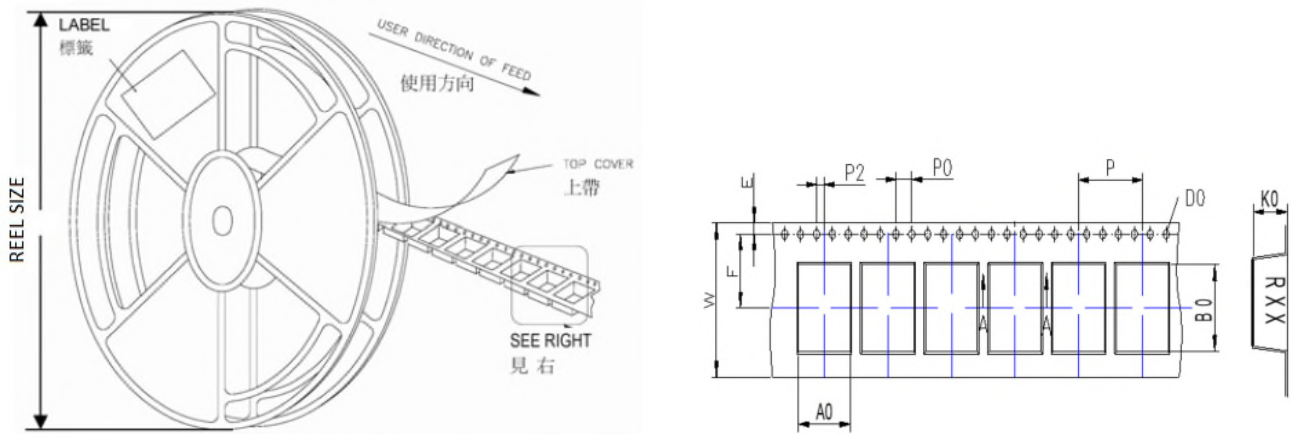
| Part number | Initial Inductance (nH) | Tolerance (±%) | DCR (mΩ) | 1-Saturation Current @25°C (Amps)(typ) | 2-Saturation Current @100°C (Amps)(typ) | Temperature Rise Current (Amps)(typ) |
|----------------------|-------------------------|----------------|----------|--|---|--------------------------------------|
| SIE2656510-R10MA-R17 | 100 | 20 | 0.17±10% | 80 | 70 | 70 |
| SIE2656510-R15MA-R17 | 150 | 20 | 0.17±10% | 52 | 46 | 70 |
| SIE2656510-R20MA-R17 | 200 | 20 | 0.17±10% | 37 | 34 | 70 |
| SIE2656510-R22MA-R17 | 220 | 20 | 0.17±10% | 33 | 30 | 70 |

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 |
|----------------|----|----|--------------|------------|
| SIE2656510-R17 | 24 | 16 | 330 mm (13") | 350 |