



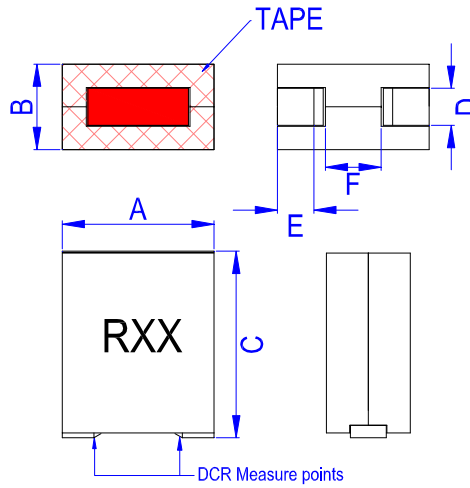
INDEX

SHAPES AND DIMENSIONS.....	1
PART NUMBER CODE	2
ELECTRICAL CHARACTERISTICS	3
REEL DIMENSIONS AND PACKAGING QUANTITY	4



SMT Power Inductor SIE2966510-R14 Series

■ SHAPES AND DIMENSIONS

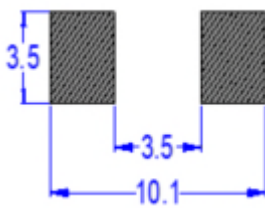


Unit: mm

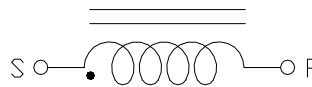
P/N	A max	B max	C max	D	E	F ref
SIE2966510-R14	9.6	By each	10.0	2.8±0.2	2.7±0.3	3.8

Marking : XXX = Inductance

Recommend PAD Layout



Equivalent circuit





■ PART NUMBER CODE

SIE2 966510 - R10 L A - R14
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

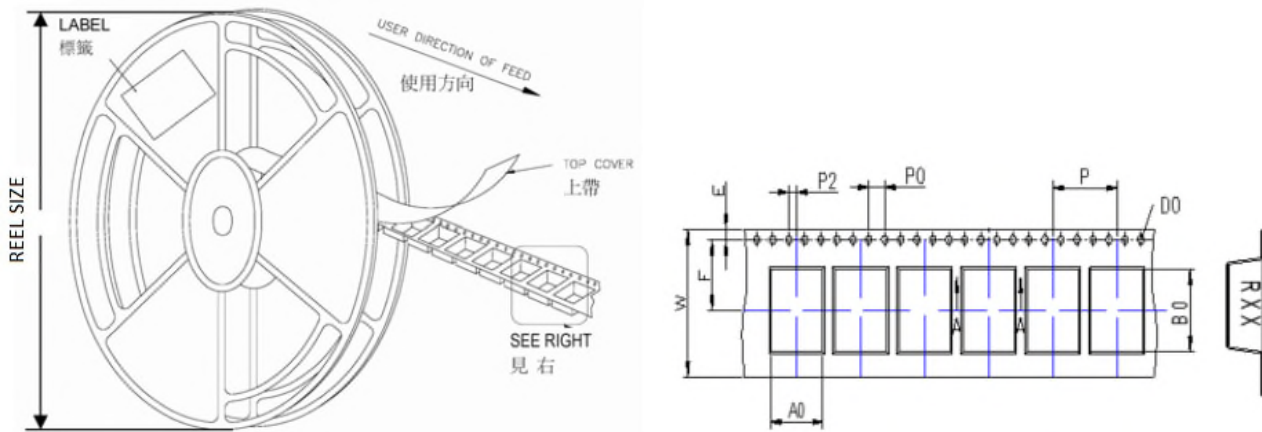
Part number	Initial Inductance (nH)	Tolerance (±%)	DCR (mΩ)	1-Saturation Current @25°C (Amps)(typ)	2-Saturation Current @100°C (Amps)(typ)	Temperature Rise Current (Amps)(typ)	Dim B (mm)
SIE2966510-R05MA-R14	50	20	0.145±5%	120+	120	68	7.0 Max
SIE2966510-R07MA-R14	70	20	0.145±5%	110	90	68	7.0 Max
SIE2966510-R10LA-R14	100	15	0.145±5%	97	85	68	6.5 Max
SIE2966510-R12LA-R14	120	15	0.145±5%	88	71	68	6.5 Max
SIE2966510-R15LA-R14	150	15	0.145±5%	65	57	68	6.5 Max
SIE2966510-R18LA-R14	180	15	0.145±5%	53	46	68	6.5 Max

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
SIE2966510-R14	24	16	330 mm (13")	400