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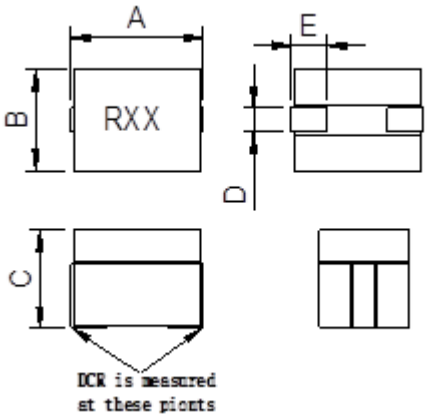
RoHS

SMT Power Inductor
SIH100707-R37 Series

■ SHAPES AND DIMENSIONS

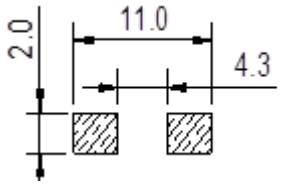


Unit: mm

P/N	A max	B max	C max	D	E
SIH100707-R37	11.0	7.5	7.0	1.6±0.2	2.6±0.5

Marking： RXX = Inductance

Recommend PAD Layout



Equivalent circuit

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■ PART NUMBER CODE

SIH	100707	-	R12	L	A	-	R37
1	2		3	4	5		6

1. Series Name
2. Size Code
3. Inductance(R=Decimal Point) Unit：nH ; R12 = 0.12uH = 120nH
4. Inductance tolerance: ”L”±15%
5. Soldering：A=Lead Free
6. Special code

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■ ELECTRICAL CHARACTERISTICS

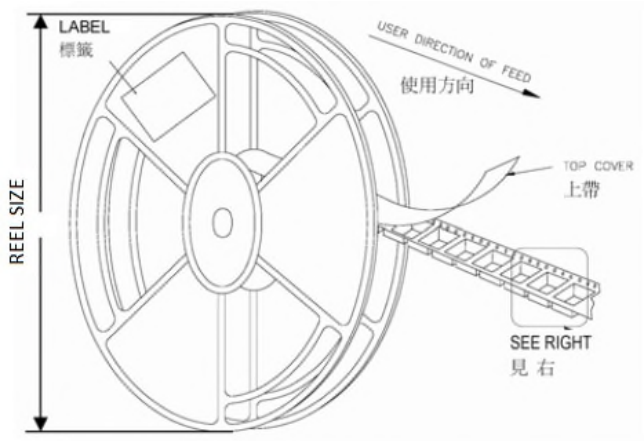
1. Part Number and Characteristics Table

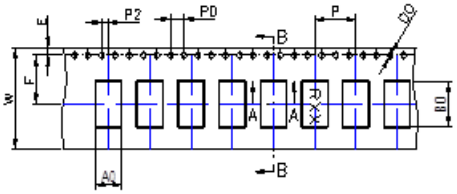
Part number	Initial Inductance (nH)	Tolerance (±%)	DCR (mΩ)	1-Saturation Current @25℃ (Amps)(typ)	2-Saturation Current @100℃ (Amps)(typ)	Temperature Rise Current (Amps)(typ)
SIH100707-R12LA-R37	120.0	15	0.37 ± 7%	85	70	37
SIH100707-R15LA-R37	150.0	15	0.37 ± 7%	75	60	37
SIH100707-R18LA-R37	180.0	15	0.37 ± 7%	50	40	37
SIH100707-R22LA-R37	220.0	15	0.37 ± 7%	40	35	37
SIH100707-R25LA-R37	250.0	15	0.37 ± 7%	35	28	37
SIH100707-R33LA-R37	330.0	15	0.37 ± 7%	28	20	37
SIH100707-R40LA-R37	400.0	15	0.37 ± 7%	21	15	37

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℃ (Including self - temperature rise).

■ REEL DIMENSIONS AND PACKAGING QUANTITY





Unit: mm

TYPE	W	P	REEL SIZE	PCS / REEL
SIH100707-R37	24	12	330 mm (13”)	640

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