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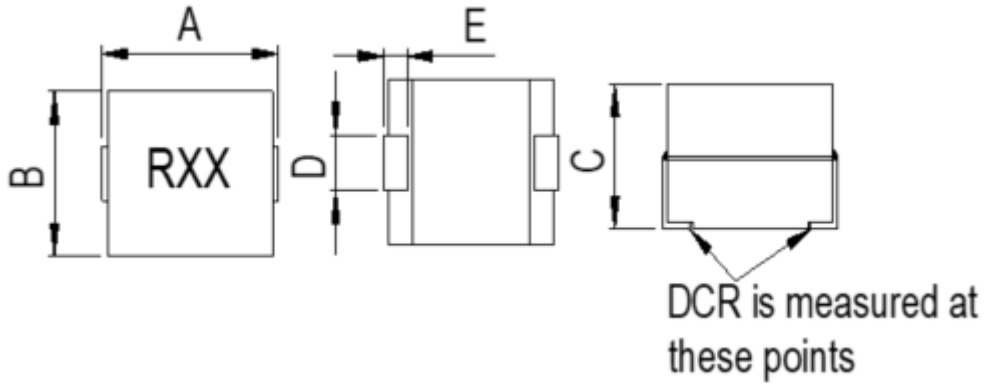
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SMT Power Inductor SIH1005-R34 Series

■ SHAPES AND DIMENSIONS

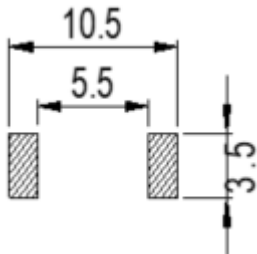


Unit: mm

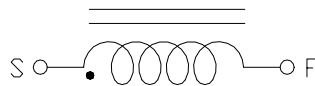
P/N	A max	B max	C max	D	E
SIH1005-R34 Series	10.0	7.0	5.0	2.7±0.2	1.2±0.2

Marking : XXX = Inductance

Recommend PAD Layout



Equivalent circuit





■ PART NUMBER CODE

SIH 1005 - R12 M A - R34
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: "M"±20%.
5. Soldering : A=Lead Free
6. Special code



■ ELECTRICAL CHARACTERISTICS

1. Part Number and Characteristics Table

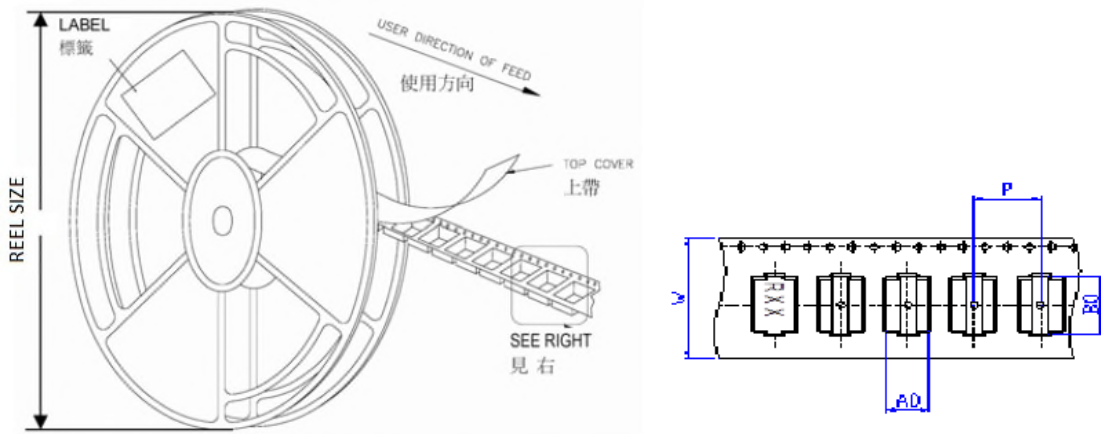
Part number	Initial Inductance (nH)	Tolerance (±%)	DCR (mΩ)	1-Saturation Current @25°C (Amps)(typ)	2-Saturation Current @100°C (Amps)(typ)	Temperature Rise Current (Amps)(typ)
SIH1005-R12MA-R34	120	20	0.34±10%	52	45	40
SIH1005-R15MA-R34	150	20	0.34±10%	45	33	40
SIH1005-R17MA-R34	170	20	0.34±10%	40	30	40
SIH1005-R20MA-R34	200	20	0.34±10%	35	25	40
SIH1005-R22MA-R34	220	20	0.34±10%	30	26	40

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
SIH1005-R34	24	12	330 mm (13")	1000