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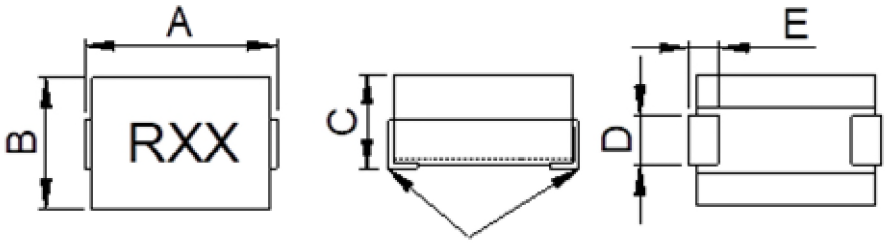
RoHS

SMT Power Inductor
SIH100705-R32 Series

■ SHAPES AND DIMENSIONS



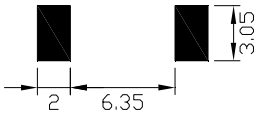
RDC is measured at these points

Unit: mm

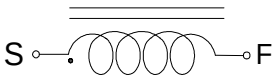
P/N	A max	B max	C	D	E
SIH100705-R32	10.2	7.0	5.0 ± 0.3	2.5 Ref	1.52 Ref

Marking： RXX = Inductance

Recommend PAD Layout



Equivalent circuit



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PART NUMBER CODE

SIH	100705	-	R12	M	A	-	R32
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%; ”M”±20%.
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)
SIH100705-72NLA-R32	72.0	15	0.325 ± 7%	80	70	31
SIH100705-R10LA-R32	100.0	15	0.325 ± 7%	70	60	31
SIH100705-R12LA-R32	120.0	15	0.325 ± 7%	65	50	31
SIH100705-R15LA-R32	150.0	15	0.325 ± 7%	45	35	31
SIH100705-R20LA-R32	200.0	15	0.325 ± 7%	33	25	31
SIH100705-R22LA-R32	220.0	15	0.325 ± 7%	30	24	31
SIH100705-R30LA-R32	300.0	15	0.325 ± 7%	19	12	31

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).

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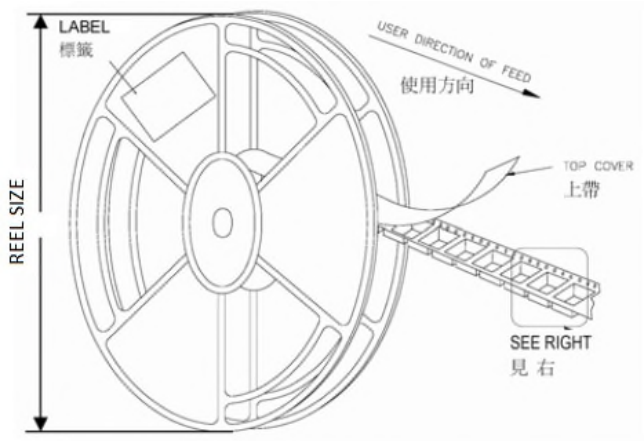
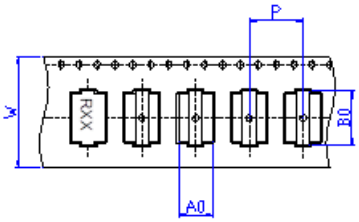
■ REEL DIMENSIONS AND PACKAGING QUANTITY





Unit: mm

TYPE	W	P	REEL SIZE	PCS / REEL
SIH100705-R32	24	12	330 mm (13”)	1000

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