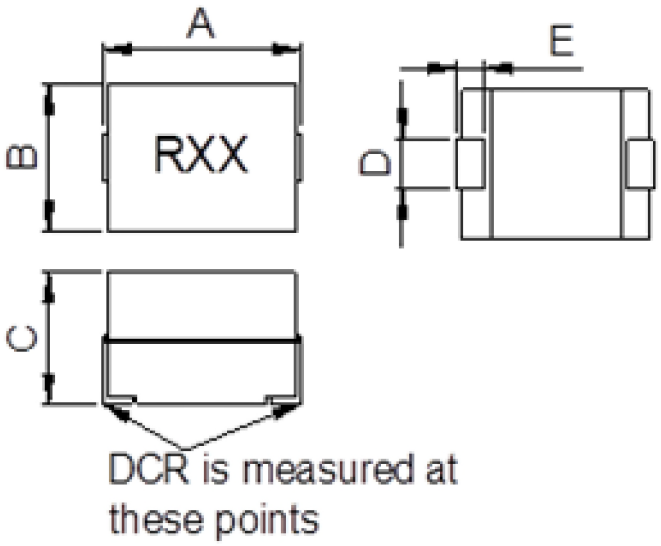
INDEX

RoHS

SMT Power Inductor
SIC100705-R29 series

■ SHAPES AND DIMENSIONS

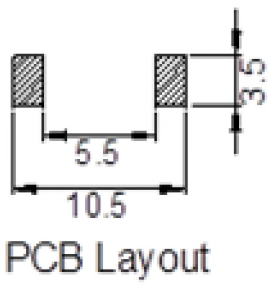


Unit: mm

P/N	A Max	B Max	C	D	E
SIC100705-R29	10.2	7.0	5.0 ± 0.2	2.7 ± 0.2	1.2 ± 0.2

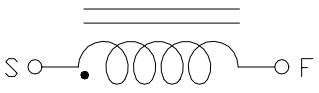
Marking： XXX = Inductance

Recommend PAD Layout



PCB Layout

Equivalent circuit



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■ PART NUMBER CODE

SIC	100705	-	R10	L	A	-	R29
1	*2*		*3*	*4*	*5*		*6*

1. Series Name
2. Size Code
3. Inductance(R=Decimal Point) Unit：nH ; R10 = 0.1uH = 100nH
4. Inductance tolerance: ”L”±15%
5. Soldering：A=Lead Free
6. Special code

■ ELECTRICAL CHARACTERISTICS

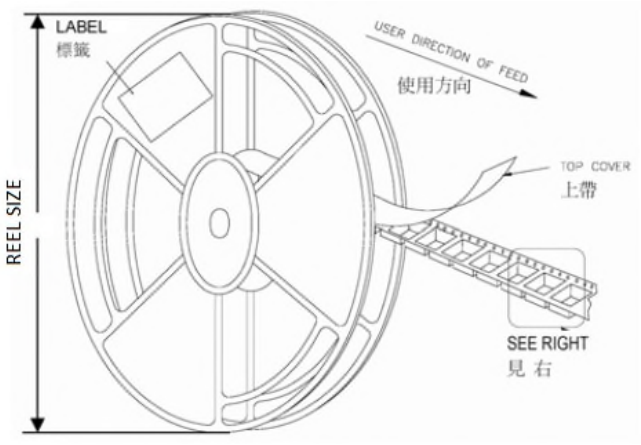
1. Part Number and Characteristics Table

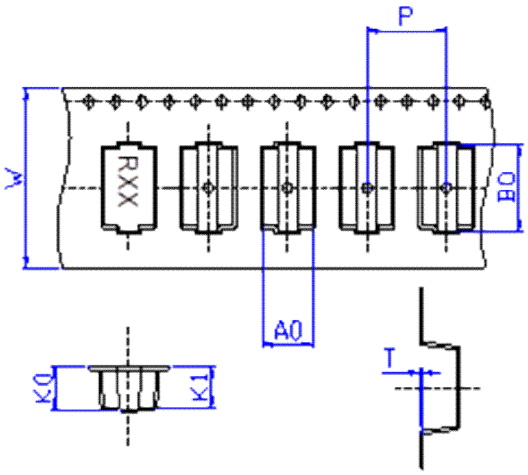
Part number	Initial Inductance (nH)	Tolerance (±%)	DCR (mΩ)	1-Saturation Current @25℃ (Amps)(typ)	Temperature Rise Current (Amps)(typ)
SIC100705-R10LA-R29	100.0	15	0.29± 7%	70	40
SIC100705-R12LA-R29	120.0	15	0.29± 7%	52	40
SIC100705-R15LA-R29	150.0	15	0.29± 7%	40	40
SIC100705-R20LA-R29	200.0	15	0.29± 7%	28	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℃ (Including self - temperature rise).

■ REEL DIMENSIONS AND PACKAGING QUANTITY





Unit: mm

TYPE	W	P	REEL SIZE	PCS / REEL
SIC100705-R29	24	12	330 mm (13”)	1000

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