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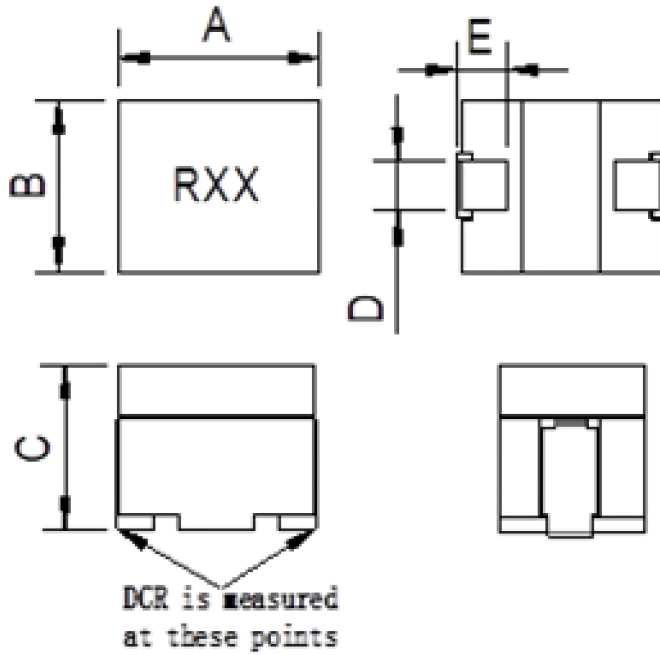
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SMT Power Inductor SIC100875-R29 series

■ SHAPES AND DIMENSIONS

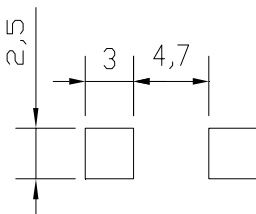


Unit: mm

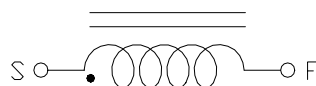
P/N	A	B Max	C	D	E
SIC100875-R29	10.2 ± 0.2	8.0	$7.3 \pm 0.3/0.2$	2.2 ± 0.2	2.54 ± 0.5

Marking : XXX = Inductance

Recommend PAD Layout



Equivalent circuit





■ PART NUMBER CODE

SIC **100875** - **R10** **K** **A** - **R29**
1 **2** **3** **4** **5** **6**

1. Series Name
2. Size Code
3. Inductance(R=Decimal Point) Unit : nH ; R10 = 0.10uH = 100nH
4. Inductance tolerance: "K"±10%; L"±15%; "M"±20%
5. Soldering : A=Lead Free
6. Special code



■ ELECTRICAL CHARACTERISTICS

1. Part Number and Characteristics Table

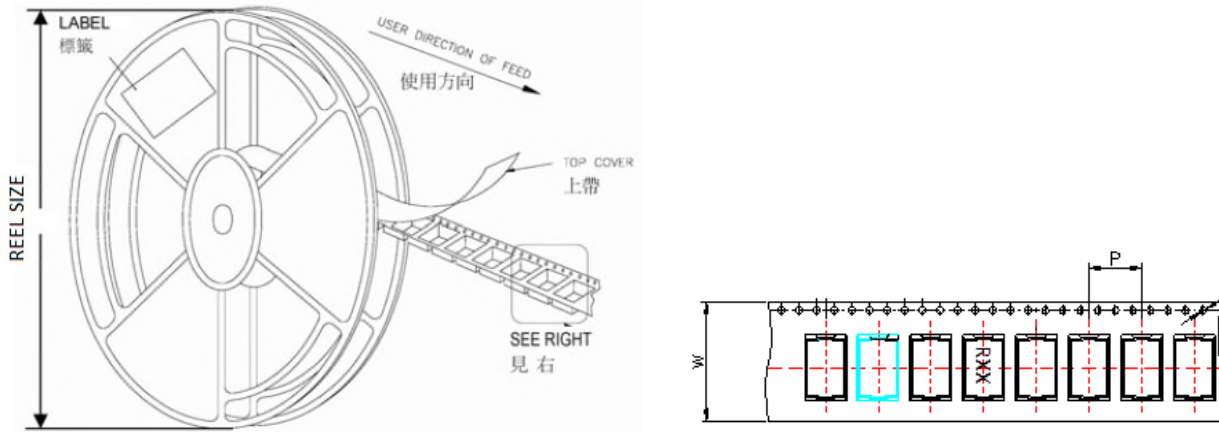
Part number	Initial Inductance (nH)	Tolerance (±%)	DCR (mΩ)	1-Saturation Current @25°C (Amps)(typ)	2-Saturation Current @100°C (Amps)(typ)	Temperature Rise Current (Amps)(typ)	Dim C (mm)
SIC100875-R10KA-R29	100.0	10	0.29±6%	100	95	56	7.3±0.3
SIC100875-R12KA-R29	120.0	10	0.29±6%	96	80	56	7.3±0.3
SIC100875-R15KA-R29	150.0	10	0.29±6%	76	60	56	7.3±0.2
SIC100875-R17LA-R29	170.0	15	0.29±6%	66	50	56	7.3±0.2
SIC100875-R22LA-R29	220.0	15	0.29±6%	50	40	56	7.3±0.2
SIC100875-R25LA-R29	250.0	15	0.29±6%	45	35	56	7.3±0.2
SIC100875-R27LA-R29	270.0	15	0.29±6%	40	30	56	7.3±0.2
SIC100875-R30LA-R29	300.0	15	0.29±6%	35	25	56	7.3±0.2
SIC100875-R36LA-R29	360.0	15	0.29±6%	28	18	56	7.3±0.2
SIC100875-R40MA-R29	400.0	20	0.29±6%	25	15	56	7.3±0.2
SIC100875-R47MA-R29	470.0	20	0.29±6%	20	10	56	7.3±0.2

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.
- 2-Saturation Current test data is referenced to 100°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
SIC100875-R29	24	12	330 mm (13")	700