



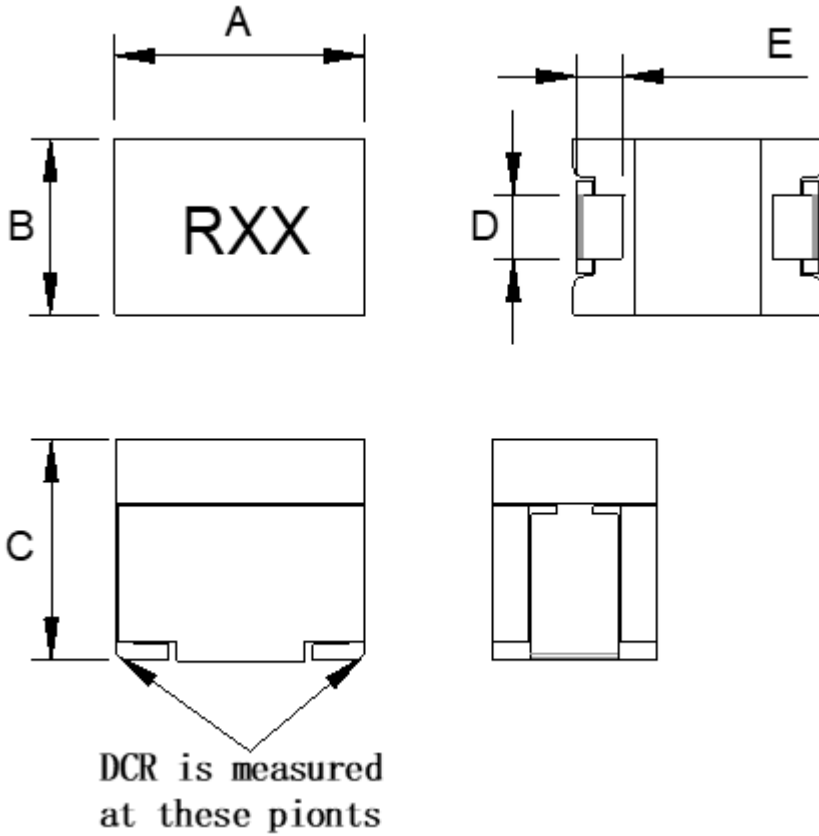
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## SMT Power Inductor SIC106580-R29 series

### ■ SHAPES AND DIMENSIONS

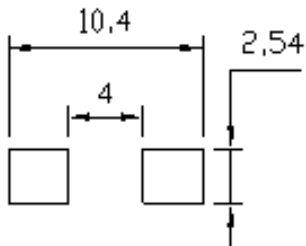


Unit: mm

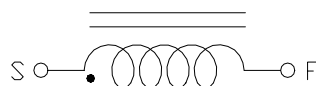
P/N	A	B	C	D	E
SIC106580-R29	$9.4 \pm 0.3$	$6.2 \pm 0.3$	$7.8 \pm 0.3$	$2.0 \pm 0.2$	$1.8 \pm 0.2$

Marking : XXX = Inductance

Recommend PAD Layout



Equivalent circuit





## ■ PART NUMBER CODE

**SIC**   **106580**   -   **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

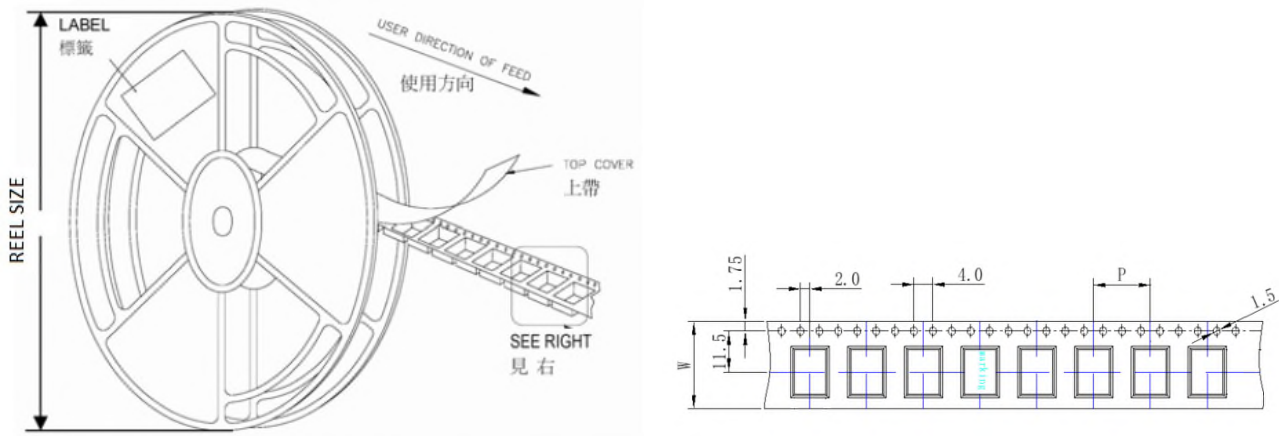
Part number	Initial Inductance (nH)	Tolerance (±%)	DCR (mΩ)	1-Saturation Current @25°C (Amps)(typ)	2-Saturation Current @125°C (Amps)(typ)	Temperature Rise Current (Amps)(typ)
SIC106580-R10KA-R29	100.0	10	0.29± 5%	100	85	42
SIC106580-R12KA-R29	120.0	10	0.29± 5%	85	65	42
SIC106580-R15KA-R29	150.0	10	0.29± 5%	65	54	42
SIC106580-R18LA-R29	180.0	15	0.29± 5%	60	45	42
SIC106580-R22LA-R29	220.0	15	0.29± 5%	45	38	42
SIC106580-R28LA-R29	280.0	15	0.29± 5%	36	25	42
SIC106580-R30LA-R29	300.0	15	0.29± 5%	32	22	42
SIC106580-R40MA-R29	400.0	20	0.29± 5%	21	14	42

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 125°C ambient.
- Operating temperature : -40~+125°C



## ■ REEL DIMENSIONS AND PACKAGING QUANTITY



Unit: mm

TYPE	W	P	REEL SIZE	PCS / REEL
SIC106850-R29	24	12	330 mm (13")	600