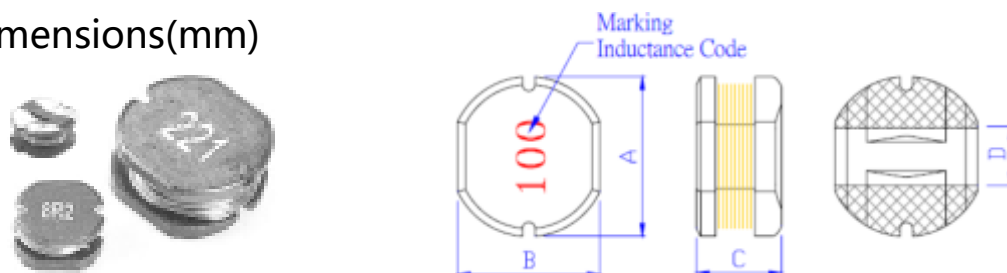


Surface Mount Unshielded Power Inductors SMR0301 Series

● SMR0301-Series

1. Dimensions(mm)



Features

1. Magnetic Shielded surface mount inductor with high current rating.
2. Low resistance to keep power loss minimum.

NO.	A	B	C	D
Spec.	3.5 ± 0.30	3.0 ± 0.30	1.1 ± 0.30	1.0 Typ

2. Electrical characteristics

Part Number	Inductance (μH)	DCR (Ω) max	IDC (A) max
SMR0301-1R0M	1.00 ± 20%	0.083	1.40
SMR0301-1R2M	1.20 ± 20%	0.099	1.24
SMR0301-1R5M	1.50 ± 20%	0.128	1.06
SMR0301-1R8M	1.80 ± 20%	0.145	0.96
SMR0301-2R2M	2.20 ± 20%	0.194	0.88
SMR0301-2R7M	2.70 ± 20%	0.225	0.80
SMR0301-3R3M	3.30 ± 20%	0.270	0.79
SMR0301-3R9M	3.90 ± 20%	0.321	0.68
SMR0301-4R7M	4.70 ± 20%	0.376	0.66
SMR0301-5R6M	5.60 ± 20%	0.393	0.61
SMR0301-6R8M	6.80 ± 20%	0.485	0.56
SMR0301-8R2M	8.20 ± 20%	0.628	0.50
SMR0301-100M	10.0 ± 20%	0.809	0.45
SMR0301-120M	12.0 ± 20%	0.901	0.40
SMR0301-150M	15.0 ± 20%	1.063	0.37

Part Number	Inductance (μH)	DCR (Ω) max	IDC (A) max
SMR0301-180M	18.0 ± 20%	1.231	0.34
SMR0301-220M	22.0 ± 20%	1.750	0.31
SMR0301-270M	27.0 ± 20%	2.113	0.28
SMR0301-330M	33.0 ± 20%	2.888	0.24
SMR0301-390M	39.0 ± 20%	3.100	0.23
SMR0301-470M	47.0 ± 20%	3.513	0.21
SMR0301-560M	56.0 ± 20%	3.950	0.20
SMR0301-680M	68.0 ± 20%	5.688	0.18
SMR0301-820M	82.0 ± 20%	6.575	0.15
SMR0301-101K	100.0 ± 20%	7.700	0.14

(1) Inductance is measured by LCR-meter 4284A/4286A (HP) or equivalent.

1. (2) Inductance test condition: Measurement Frequency for Inductance: 100KHz/1.0V

1.0μH~8.2μH:7.96MHz/0.5V, 10.0μH~82.0μH:2.52MHz/0.5V, More than 100.0μH at 1.0KHz/1.0V.

3) DC Resistance is measured by HP4338B Milliohms Meter or equivalent.

(4) Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK) at 1.0KHz/1.0V.

(5) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C).

(6) Operating temperature -55°C ~ +125°C.

(7) All test data is referenced to 25°C ambient.