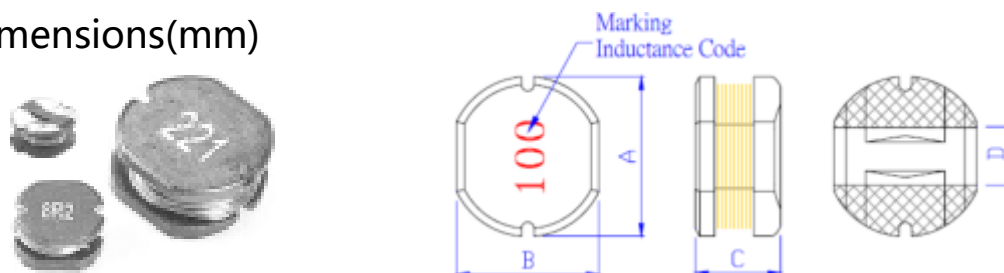


Surface Mount Unshielded Power Inductors SMR0301 Series

● SMR0302L-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	1.6 ± 0.30	1.0 Typ

2. Electrical characteristics

Part Number	Inductance (μH)	DCR (Ω) max	IDC (A) max
SMR0302L-1R0M	1.00 ± 20%	0.048	1.60
SMR0302L-1R2M	1.20 ± 20%	0.058	1.56
SMR0302L-1R5M	1.50 ± 20%	0.065	1.52
SMR0302L-1R8M	1.80 ± 20%	0.070	1.49
SMR0302L-2R2M	2.20 ± 20%	0.078	1.47
SMR0302L-2R7M	2.70 ± 20%	0.100	1.40
SMR0302L-3R3M	3.30 ± 20%	0.126	1.34
SMR0302L-3R9M	3.90 ± 20%	0.150	1.28
SMR0302L-4R7M	4.70 ± 20%	0.158	1.22
SMR0302L-5R6M	5.60 ± 20%	0.186	1.09
SMR0302L-6R8M	6.80 ± 20%	0.213	0.96
SMR0302L-8R2M	8.20 ± 20%	0.238	0.84
SMR0302L-100M	10.0 ± 20%	0.307	0.70
SMR0302L-120M	12.0 ± 20%	0.372	0.65
SMR0302L-150M	15.0 ± 20%	0.468	0.59

Part Number	Inductance (μH)	DCR (Ω) max	IDC (A) max
SMR0302L-180M	18.0 ± 20%	0.515	0.54
SMR0302L-220M	22.0 ± 20%	0.656	0.48
SMR0302L-270M	27.0 ± 20%	0.774	0.43
SMR0302L-330M	33.0 ± 20%	1.021	0.37
SMR0302L-390M	39.0 ± 20%	1.122	0.32
SMR0302L-470M	47.0 ± 20%	1.509	0.26
SMR0302L-560M	56.0 ± 20%	1.675	0.24
SMR0302L-680M	68.0 ± 20%	1.919	0.23
SMR0302L-820M	82.0 ± 20%	2.644	0.21
SMR0302L-101K	100.0 ± 10%	2.870	0.19
SMR0302L-121K	120.0 ± 10%	4.084	0.17
SMR0302L-151K	150.0 ± 10%	4.774	0.16
SMR0302L-181K	180.0 ± 10%	5.699	0.14
SMR0302L-221K	220.0 ± 10%	9.000	0.12

(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.