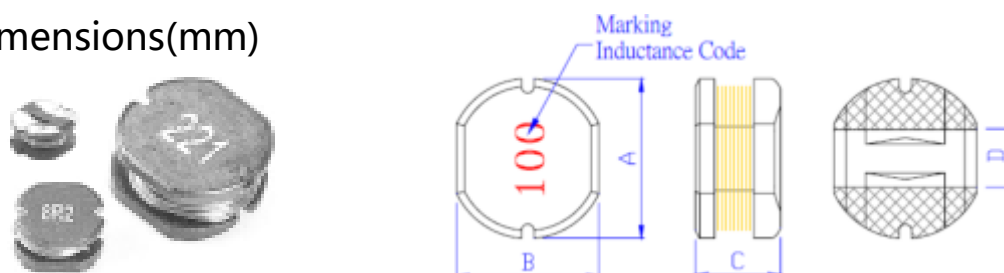


Surface Mount Unshielded Power Inductors SMR0301 Series

● SMR0302-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	2.1 ± 0.30	1.0 Typ

2. Electrical characteristics

Part Number	Inductance (μH)	DCR (Ω) max	IDC (A) max
SMR0302-1R0M	1.00 ± 20%	0.04	1.50
SMR0302-1R4M	1.20 ± 20%	0.05	1.50
SMR0302-1R8M	1.50 ± 20%	0.06	0.80
SMR0302-2R2M	1.80 ± 20%	0.08	0.75
SMR0302-2R7M	2.20 ± 20%	0.10	0.75
SMR0302-3R3M	2.70 ± 20%	0.15	0.60
SMR0302-3R9M	3.30 ± 20%	0.20	0.50
SMR0302-4R7M	3.90 ± 20%	0.20	0.50
SMR0302-5R6M	4.70 ± 20%	0.23	0.45
SMR0302-6R8M	5.60 ± 20%	0.25	0.40
SMR0302-8R2M	8.20 ± 20%	0.30	0.40
SMR0302-100M	10.0 ± 20%	0.35	0.35
SMR0302-120M	12.0 ± 20%	0.40	0.35
SMR0302-150M	15.0 ± 20%	0.50	0.30
SMR0302-180M	18.0 ± 20%	0.55	0.30

Part Number	Inductance (μH)	DCR (Ω) max	IDC (A) max
SMR0302-220M	22.0 ± 20%	0.60	0.30
SMR0302-270M	27.0 ± 20%	0.70	0.30
SMR0302-330M	33.0 ± 20%	1.0	0.25
SMR0302-390M	39.0 ± 20%	1.2	0.25
SMR0302-470M	47.0 ± 20%	1.5	0.20
SMR0302-560M	56.0 ± 20%	1.8	0.20
SMR0302-680M	68.0 ± 20%	2.0	0.18
SMR0302-820M	82.0 ± 20%	2.5	0.16
SMR0302-101M	100.0 ± 20%	3.0	0.15
SMR0302-121M	120.0 ± 20%	3.5	0.14
SMR0302-151M	150.0 ± 20%	4.0	0.13
SMR0302-181M	180.0 ± 20%	5.0	0.12
SMR0302-221M	220.0 ± 20%	5.5	0.10
SMR0302-271M	270.0 ± 20%	6.0	0.10
SMR0302-331M	330.0 ± 20%	7.0	0.10
SMR0302-391M	390.0 ± 20%	8.0	0.10
SMR0302-471M	470.0 ± 20%	12.0	0.09

(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.