

SURFACE MOUNT POWER INDUCTORS / SMI TYPE

FEATURES

- ◆ 125°C maximum temperature operation
- ◆ Ferrite core material
- ◆ Metalized core mounting utilizes board space
- ◆ Frequency range up to 1MHz

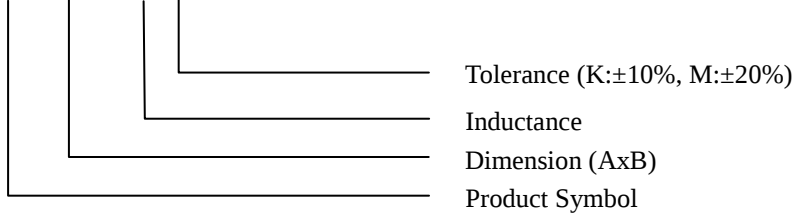
APPLICATIONS

- ◆ Buck or Boost Inductor
- ◆ Noise filtering and output filter chokes
- ◆ Battery Power, DC-DC converters
- ◆ Notebook power, PDA's, Hand held computers
- ◆ DVD players
- ◆ Cellular phones

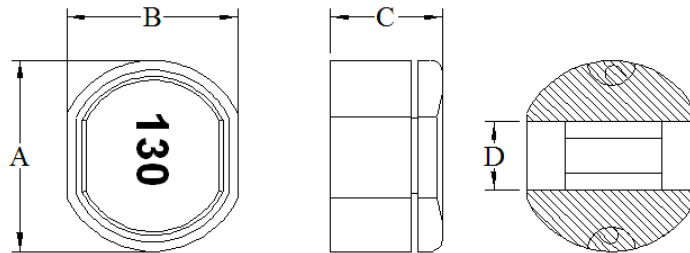


ORDERING CODE

SMI 0603 – 1R5 □



SHAPES



DIMENSIONS UNIT: mm

Part No.	A	B	C (MAX)	D (REF)
SMI0603	6.20 ± 0.3	5.80 ± 0.3	3.5	1.7
SMI0705	7.80 ± 0.3	7.00 ± 0.3	5.2	2.0
SMI1005	10.00 ± 0.4	9.00 ± 0.4	5.9	2.9

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ELECTRICAL CHARACTERISTICS FOR SMI 0603

Part No.	Inductance (μ H)	RDC (Ω)	IDC (A)
SMI0603-1R5M	1.5	0.027	5.00
SMI0603-2R2M	2.2	0.035	4.09
SMI0603-3R3M	3.3	0.051	3.20
SMI0603-5R6M	5.6	0.059	2.65
SMI0603-6R8M	6.8	0.067	2.37
SMI0603-8R2M	8.2	0.075	2.14
SMI0603-100M	10.0	0.085	1.30
SMI0603-150M	15.0	0.100	1.20
SMI0603-220M	22.0	0.150	1.10
SMI0603-330M	33.0	0.200	1.05
SMI0603-470M	47.0	0.290	0.85
SMI0603-680M	68.0	0.380	0.80
SMI0603-820M	82.0	0.460	0.67
SMI0603-101M	100.0	0.700	0.45

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ELECTRICAL CHARACTERISTICS FOR SMI 0705

Part No.	Inductance (μ H)	RDC (Ω)	IDC (A)
SMI0705-R82M	0.82	0.006	8.60
SMI0705-1R5M	1.50	0.008	6.60
SMI0705-2R2M	2.20	0.012	5.40
SMI0705-3R3M	3.30	0.017	4.60
SMI0705-4R7M	4.70	0.027	3.50
SMI0705-6R8M	6.80	0.032	3.10
SMI0705-8R2M	8.20	0.043	2.80
SMI0705-100M	10.00	0.047	2.60
SMI0705-150M	15.00	0.073	2.00
SMI0705-220M	22.00	0.110	1.70
SMI0705-330M	33.00	0.140	1.40
SMI0705-470M	47.00	0.210	1.20
SMI0705-680M	68.00	0.310	0.98
SMI0705-820M	82.00	0.420	0.87
SMI0705-101M	100.00	0.470	0.80
SMI0705-151M	150.00	0.720	0.64
SMI0705-221M	220.00	0.890	0.54
SMI0705-331M	330.00	1.500	0.43
SMI0705-471M	470.00	2.000	0.36

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ELECTRICAL CHARACTERISTICS FOR SMI 1005

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
SMI1005-4R7M	4.7	0.010	5.12
SMI1005-6R8M	6.8	0.015	4.33
SMI1005-100M	10.0	0.025	3.31
SMI1005-150M	15.0	0.037	2.68
SMI1005-220M	22.0	0.057	2.25
SMI1005-330M	33.0	0.066	1.94
SMI1005-470M	47.0	0.097	1.61
SMI1005-680M	68.0	0.150	1.31
SMI1005-101M	100.0	0.190	1.06
SMI1005-151M	150.0	0.280	0.89
SMI1005-221M	220.0	0.430	0.73
SMI1005-331M	330.0	0.670	0.59
SMI1005-471M	470.0	0.810	0.50
SMI1005-681M	680.0	1.230	0.42
SMI1005-102M	1000.0	1.890	0.34

* 100uH 以上 Test Frequency : 1KHZ/0.25V

* 100uH 以下 Test Frequency : 2.52MHZ/0.25V