

SMD Series

FEATURES

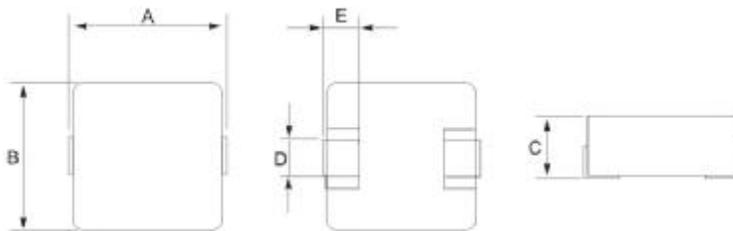
- Super low resistance, ultra high current rating.
- Low profile for machine placement.
- High performance (Isat) realized by metal dust core.
- Frequency range: up to 1MHz.
- RoHS compliance.

APPLICATIONS

- Notebook , desktop, and server applications.
- Low profile , high current power supplies.
- DC/DC converter for CPU.



Dimensions and Land Patterns. (UNIT: mm)



TYPE	A	B	C	D	E
SMD5018	5.5Max	5.0Max	2.5Max	2.5Max	1.5±0.1
SMD0603	7.5Max	6.8Max	3.5Max	2.5Max	1.5±0.1
SMD105	11.5Max	10Max	5.5Max	3.0±0.3	2.5±0.3
SMD125	13.0Max	13Max	5.5Max	3.0±0.3	2.5±0.3

TYPE:SMD5018, SMD0603, SMD105, SMD125

Parts No.	L(μH)	SMD5018		SMD0603		SMD105		SMD125	
		D.C.R(mΩ) MAX.	Rated Current (A)	D.C.R(mΩ) MAX.	Rated Current (A)	D.C.R(mΩ) MAX.	Rated Current (A)	D.C.R(mΩ) MAX.	Rated Current (A)
R47	0.47	4.6	18	3.2	28	2.6	32	2.0	35
R68	0.68	5.0	15	4.6	18	3.3	23.5	2.7	31
R82	0.82	6.9	13	5.0	16	4.5	20.3	3.5	27
1R0	1.0	9.7	11.5	7.6	13.5	6.3	15.5	5.1	22
1R5	1.5	10.6	9.1	9.2	12	8.2	11	7.3	19

NOTES:

- Idc: DC current (A) that will cause an approximate ΔT of 40 °C.
 Isat: DC current (A) that will cause Lo to drop approximately 20%.
 All test data is referenced to 25°C ambient.
 Operating Temperature Range -55°C to +125°C.
 Test Frequency: 100KHz, 0.25V