

1. Features of SD54 Series :

- Miniature SMD Unshielded Power Inductor in a 6.1*5.5mm foot print.
- Low profile : 4.85mm max. height.
- Inductance Range: 0.60uH to 220.0 uH , custom values are welcomed.
- Ideal for DC to DC power converter application.
- Operating Temperature Range: - 40°C to + 130°C.
- T & R Qty's: 1500 pcs , 13" Reel with plastic tape 16mm wide and 8mm pocket spacing.
- RoHs & HF Compliant.

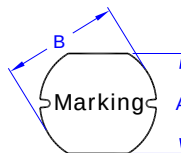


2. Electrical Characteristics of SD54 Series:

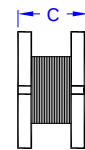
ITG Part Number	OCL ¹ (uH) ±10% or 20%	DCR (mΩ) Max. @25°C	Isat ² (Amp.) @25°C	Irms ³ (Amp.) @25°C	Marking
SD54-R60HF	0.60 , +40% / -20%	0.0182	11.00	8.88	R60
SD54-1R0MHF	1.00 , 20%	0.0198	9.46	7.65	1R0
SD54-1R5MHF	1.50 , 20%	0.0257	8.28	6.68	1R5
SD54-1R8MHF	1.80 , 20%	0.0327	7.28	5.87	1R8
SD54-2R2MHF	2.20 , 20%	0.0410	7.01	5.66	2R2
SD54-2R7MHF	2.70 , 20%	0.0455	6.41	5.17	2R7
SD54-3R3MHF	3.30 , 20%	0.0555	5.53	4.46	3R3
SD54-6R8MHF	6.80 , 20%	0.0820	3.82	3.08	6R8
SD54-100MHF	10.00 , 20%	0.10	1.98	2.08	100
SD54-120MHF	12.00 , 20%	0.12	1.80	1.89	120
SD54-150LHF	15.00 , 15%	0.14	1.62	1.70	150
SD54-180LHF	18.00 , 15%	0.15	1.53	1.61	180
SD54-220LHF	22.00 , 15%	0.18	1.35	1.42	220
SD54-270LHF	27.00 , 15%	0.20	1.26	1.32	270
SD54-330KHF	33.00 , 10%	0.23	1.15	1.21	330
SD54-390KHF	39.00 , 10%	0.32	0.99	1.04	390
SD54-470KHF	47.00 , 10%	0.37	0.90	0.95	470
SD54-560KHF	56.00 , 10%	0.42	0.81	0.86	560
SD54-680KHF	68.00 , 10%	0.46	0.68	0.71	680
SD54-820KHF	82.00 , 10%	0.60	0.64	0.67	820
SD54-101KHF	100.00 , 10%	0.70	0.60	0.63	101
SD54-121KHF	120.00 , 10%	0.93	0.51	0.54	121
SD54-151KHF	150.00 , 10%	1.10	0.48	0.51	151
SD54-181KHF	180.00 , 10%	1.38	0.44	0.47	181
SD54-221KHF	220.00 , 10%	1.57	0.43	0.45	221

3. Mechanical Dimension of SD54 Series (Unit:mm):

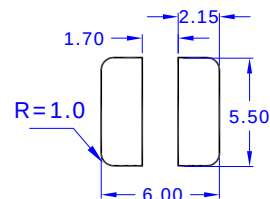
A	B	C	D	E
±0.30	±0.30	±0.35	Ref.	±0.50
5.20	5.80	4.50	2.00	5.80



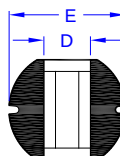
Top View



Side View



Suggested Pad Layout



Bottom View

Part Marking:
xxx: Inductance value in uH(R:decimal point).

Notes:

- 1>. Open Circuit Inductance (OCL) and L@Isat test condition: 100KHz, 0.25V (Ta=25°C).
- 2>. Isat: DC current that will cause inductance to drops approximately by 10% from OCL(Ta=25°C).
- 3>. Irms: DC current that will cause an approximate temperature rise (ΔT) of 40°C (Ta=25°C).