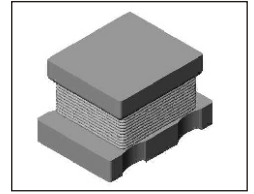


SMT Power Inductor

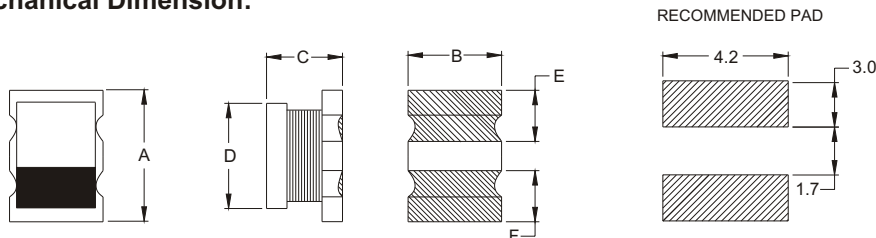
SIH42 Type

Features

- Small size (3.2mm*2.5mm), low profile (2.3mm max. height) SMD type.
- Unshielded.
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



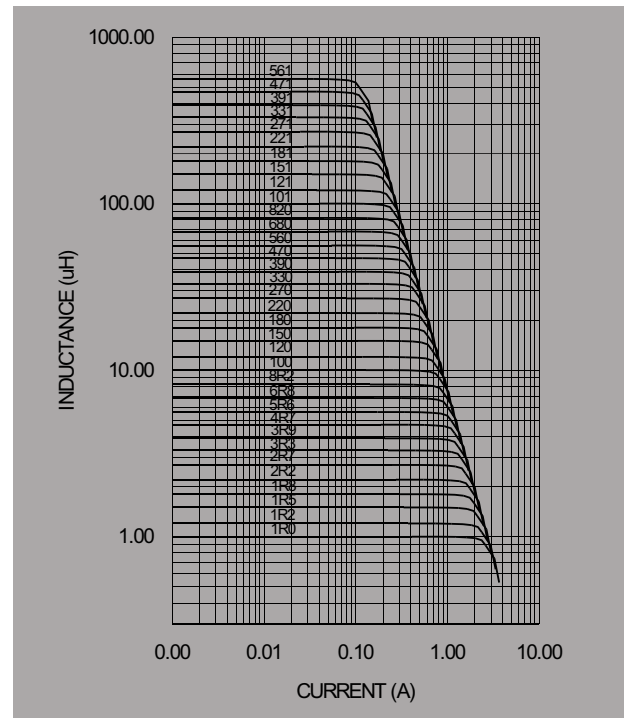
Mechanical Dimension:



UNIT:mm/inch
A = 3.2±0.3/0.126±0.012
B = 2.5±0.2/0.098±0.008
C = 2.3/0.091 Max.
D = 2.5±0.2/0.098±0.008
E = 0.9/0.035 Min.
F = 0.9/0.035 Min.

Electrical Characteristics: At 25°C: 1.0~390uH 1MHz, 0.1V 470~560uH 1KHz, 1V

PART NO.	L ¹ (uH)	DCR (Ω) MAX	I _{RATED} ² (A dc)
SIH42-1R0	1.0	0.078	1.000
SIH42-1R2	1.2	0.100	0.920
SIH42-1R5	1.5	0.110	0.880
SIH42-1R8	1.8	0.118	0.840
SIH42-2R2	2.2	0.126	0.790
SIH42-2R7	2.7	0.145	0.750
SIH42-3R3	3.3	0.160	0.710
SIH42-3R9	3.9	0.180	0.680
SIH42-4R7	4.7	0.195	0.650
SIH42-5R6	5.6	0.250	0.590
SIH42-6R8	6.8	0.300	0.540
SIH42-8R2	8.2	0.350	0.490
SIH42-100	10	0.390	0.450
SIH42-120	12	0.500	0.400
SIH42-150	15	0.630	0.350
SIH42-180	18	0.820	0.300
SIH42-220	22	0.923	0.250
SIH42-270	27	1.100	0.230
SIH42-330	33	1.300	0.210
SIH42-390	39	1.500	0.190
SIH42-470	47	1.690	0.170
SIH42-560	56	2.400	0.150
SIH42-680	68	3.100	0.130
SIH42-820	82	3.800	0.115
SIH42-101	100	4.550	0.100
SIH42-121	120	6.100	0.092
SIH42-151	150	7.700	0.084
SIH42-181	180	9.300	0.077
SIH42-221	220	10.920	0.070
SIH42-271	270	12.000	0.065
SIH42-331	330	13.000	0.060
SIH42-391	390	22.100	0.060
SIH42-471	470	24.700	0.060
SIH42-561	560	28.600	0.060



1. Tolerance of inductance
1.0~8.2uH±20% 10~560uH±10%
2. I_{RATED} : rated current. ΔL<10%, ΔT<45°C at I_{RATED}
3. Operating temperature: -20°C to 105°C (including self-temperature rise)



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