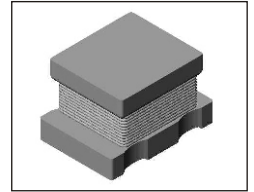


# SMT Power Inductor

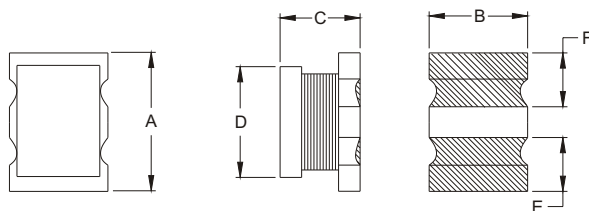
## SIA3220 Type

### Features

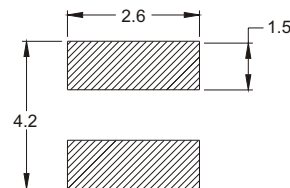
- RoHS compliant.
- Small size (3.2mm\*1.8mm), low profile (2.0mm max. height) SMD type.
- Unshielded.
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



### Mechanical Dimension:



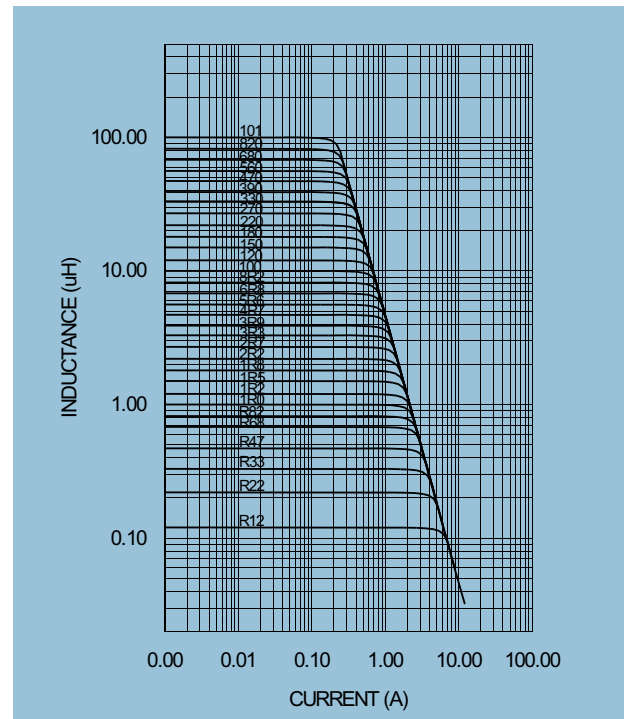
### RECOMMENDED PAD PATTERNS



UNIT:mm/inch  
 A = 3.2±0.3 / 0.126±0.012  
 B = 1.6±0.2 / 0.063±0.008  
 C = 2.0 / 0.079 Max.  
 D = 2.3±0.2 / 0.091±0.008  
 E = 0.7 / 0.028 Min.  
 F = 0.7 / 0.028 Min.

### Electrical Characteristics: 25°C, 1MHz, 0.1V

PART NO.	L <sup>1</sup> (uH)	DCR (Ω) MAX	I <sub>rated</sub> <sup>2</sup> (A dc)
SIA3220-R12	0.12	0.112	0.970
SIA3220-R22	0.22	0.140	0.850
SIA3220-R33	0.33	0.182	0.760
SIA3220-R47	0.47	0.210	0.700
SIA3220-R68	0.68	0.280	0.610
SIA3220-R82	0.82	0.336	0.560
SIA3220-1R0	1.00	0.364	0.510
SIA3220-1R2	1.20	0.429	0.480
SIA3220-1R5	1.50	0.455	0.460
SIA3220-1R8	1.80	0.507	0.440
SIA3220-2R2	2.20	0.533	0.430
SIA3220-2R7	2.70	0.585	0.410
SIA3220-3R3	3.30	0.663	0.380
SIA3220-3R9	3.90	0.702	0.370
SIA3220-4R7	4.70	0.845	0.340
SIA3220-5R6	5.60	1.014	0.310
SIA3220-6R8	6.80	1.118	0.300
SIA3220-8R2	8.20	1.573	0.250
SIA3220-100	10.00	1.690	0.230
SIA3220-120	12.00	2.080	0.220
SIA3220-150	15.00	3.380	0.200
SIA3220-180	18.00	3.640	0.170
SIA3220-220	22.00	3.900	0.160
SIA3220-270	27.00	4.420	0.150
SIA3220-330	33.00	8.710	0.120
SIA3220-390	39.00	9.790	0.110
SIA3220-470	47.00	10.400	0.100
SIA3220-560	56.00	11.700	0.091
SIA3220-680	68.00	13.000	0.087
SIA3220-820	82.00	14.300	0.083
SIA3220-101	100.00	15.600	0.080



1. Tolerance of inductance :  
K : ± 10% for 0.12~100uH.
2. I<sub>rated</sub> is the DC current which cause the inductance drop less than 10% of its nominal inductance without current and the surface temperature of the part increase less than 45°C.
3. Operating temperature: -20°C to 105°C (including self-temperature rise).



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