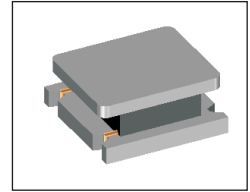


# SMT Power Inductor

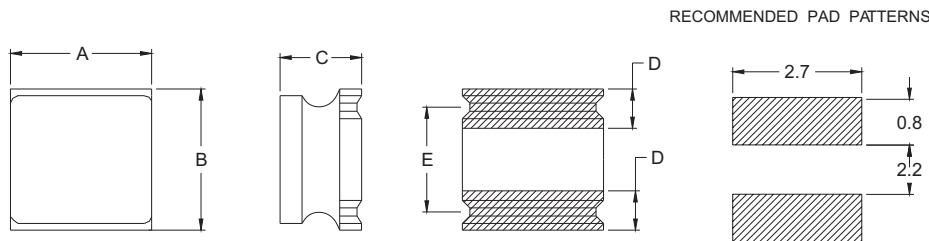
## SIG3015 Type

### Features

- RoHS compliant.
- Halogen free compliant.
- Low profile (1.5mm max. height ), SMD type.
- Shielded
- 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:



UNIT : mm/inch  
 A = 3.00 ± 0.1 / 0.118 ± 0.004  
 B = 3.00 ± 0.1 / 0.118 ± 0.004  
 C = 1.50 / 0.059 MAX.  
 D = 0.90 ± 0.2 / 0.035 ± 0.008  
 E = 1.90 ± 0.2 / 0.075 ± 0.008

### Electrical Characteristics: 25°C: 100KHz, 0.1V

PART NO.	L <sup>1</sup> (uH)	DCR (mΩ) Max.	Isat <sup>2</sup> (A dc)	I <sub>r</sub> <sup>3</sup> (A dc)	SELF-RESONANT FREQUENCY (MHz)Min.
SIG3015 - 1R0	1.0	32	2.10	2.10	100
SIG3015 - 1R5	1.5	48	1.80	1.82	87
SIG3015 - 2R2	2.2	72	1.48	1.50	64
SIG3015 - 3R3	3.3	96	1.21	1.23	49
SIG3015 - 4R7	4.7	144	1.02	1.04	40
SIG3015 - 6R8	6.8	192	0.87	0.88	36
SIG3015 - 100	10.0	276	0.70	0.71	28
SIG3015 - 150	15.0	432	0.56	0.56	23
SIG3015 - 220	22.0	624	0.47	0.47	20
SIG3015 - 330	33.0	1008	0.39	0.37	18
SIG3015 - 470	47.0	1609	0.32	0.30	17

1. Tolerance of inductance: ± 30% for 1.0~1.5uH, ± 20% for 2.2~47uH.
2. Isat is the DC current which cause the inductance drop 30% typical of its nominal inductance without current.
3. I<sub>r</sub> is the DC current which cause the surface temperature of the part increase less than 40°C.
4. Operating temperature: -25°C to 120°C (including self-temperature rise).



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