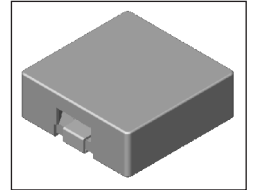


# SMT Power Inductor

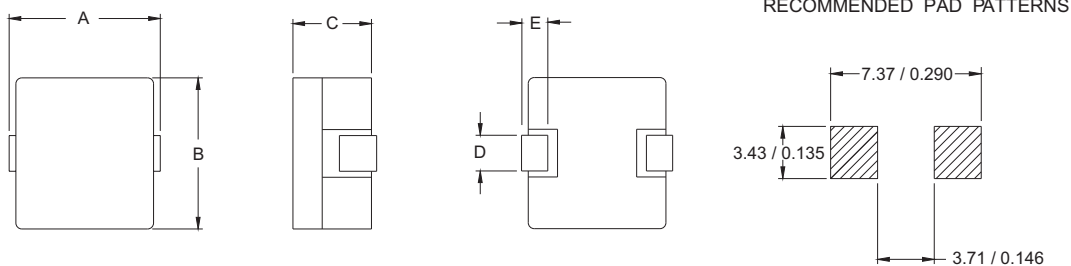
## HAH83 Type

### Features

- RoHS compliant.
- Low profile, SMD type.
- High current.
- Magnetic shielded.
- 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 = 7.50 / 0.295 Max.  
 B = 7.00 / 0.276 Max.  
 C = 3.20 / 0.126 Max.  
 D = 1.40±0.2 / 0.055±0.008  
 E = 1.50±0.254 / 0.059±0.01

### Electrical Characteristics : At 25°C , 100KHz, 1V

PART NO.	Lo <sup>1</sup> (uH)	Li (uH)	DCR (mΩ) MAX	Isat <sup>2</sup> (A dc)	I <sub>rms</sub> <sup>3</sup> (A dc)
HAH83-0R1	0.10	0.070	1.7	60.0	32.50
HAH83-R15	0.15	0.105	2.5	52.0	26.00
HAH83-0R2	0.20	0.150	2.8	41.0	24.00
HAH83-R22	0.22	0.165	2.8	40.0	23.00
HAH83-R33	0.33	0.231	3.9	30.0	20.00
HAH83-R47	0.47	0.329	4.2	26.0	17.50
HAH83-R68	0.68	0.476	5.5	25.0	15.50
HAH83-R82	0.82	0.574	8.0	24.0	13.00

1. Lo is the initial inductance and the tolerance of inductance is ± 20%.
2. Isat is the DC current which cause the inductance drop to Li.
3. I<sub>rms</sub> is the DC current which cause the surface temperature of the part increase less than 45°C.
4. Operating temperature : -40°C to 125°C ( including self-temperature rise ).



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