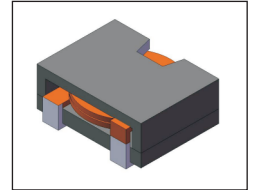


# SMT Power Inductor

## HMR1042B, 1045, 1050, 1055 & 1075B Type

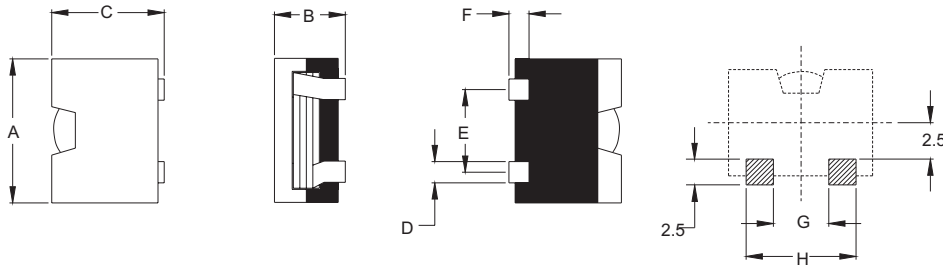
### Features

- 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 :

#### RECOMMENDED PAD PATTERNS



UNIT : mm/inch  
 A = 10.40 / 0.409 Max.  
 C = 9.00 / 0.354 Max.  
 F = 2.50 / 0.098  
 G = 2.90 / 0.114

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

PART NO.	L <sup>1</sup> (uH)	Li (uH)	DCR (mΩ) MAX	I <sub>sat</sub> <sup>2</sup> (A dc)	I <sub>rms</sub> <sup>3</sup> (A dc)	B (mm/inch) MAX	D (mm/inch) MAX	E (mm/inch)	H (mm/inch)
HMR1042B-5R5	5.50	2.800	18.00	8	6.4	4.2 / 0.165	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1045-0R4	0.40	0.320	2.00	30	20.0	4.5 / 0.177	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1050-R22	0.22	0.176	0.90	48	31.0	5.0 / 0.197	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1050-0R5	0.50	0.400	1.60	25	22.0	5.0 / 0.197	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1050-1R0	1.00	0.800	2.00	16	17.0	5.0 / 0.197	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1050-1R2	1.20	0.960	2.00	13	17.0	5.0 / 0.197	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1050-1R2HS	1.20	0.900	6.00	21	12.0	5.0 / 0.197	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1050-2R2	2.20	1.650	6.00	12	12.0	5.0 / 0.197	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1050-4R7	4.70	3.760	11.50	8	8.0	5.0 / 0.197	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1055-0R2	0.20	1.600	0.65	48	35.0	5.5 / 0.217	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1055-R56	0.56	4.480	1.20	20	25.0	5.5 / 0.217	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1055-0R7	0.70	0.560	1.60	13	22.0	5.5 / 0.217	1.8 / 0.071	5.7 / 0.224	8.5 / 0.335
HMR1055-0R8HS	0.80	0.600	4.00	21	13.5	5.5 / 0.217	1.7 / 0.669	5.6 / 0.220	8.3 / 0.327
HMR1055-1R5	1.50	1.080	4.00	15	13.5	5.5 / 0.217	1.7 / 0.669	5.6 / 0.220	8.3 / 0.327
HMR1075B-3R0	3.00	2.400	6.50	12	11.0	7.5 / 0.295	1.7 / 0.669	5.6 / 0.220	8.3 / 0.327

1. Tolerance of inductance is ± 20%.
2. I<sub>sat</sub> 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 : -20°C to 105°C ( including self-temperature rise ).



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