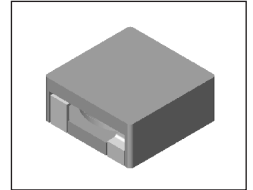


# SMT Power Inductor

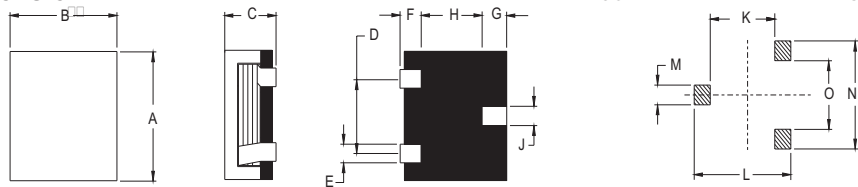
## HMP1362, 1365(S), 1367, 1375S, 1378(S), 1380 & 13100 Type

### 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  
 D = 7.80 / 0.307  
 F = 2.50 / 0.098  
 G = 2.50 / 0.098  
 H = 8.00 / 0.315  
 J = 3.20 / 0.126  
 K = 7.00 / 0.276  
 L = 14.00 / 0.551  
 M = 3.70 / 0.146  
 UNIT : mm/inch

PART NO.	A	B	C (MAX)	E	N	O
HMP1362	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	6.20 / 0.244	2.40 / 0.094	11.20 / 0.441	4.40 / 0.173
HMP1365	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	6.50 / 0.256	2.40 / 0.094	11.20 / 0.441	4.40 / 0.173
HMP1365S	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	6.50 / 0.256	2.10 / 0.083	10.90 / 0.429	4.70 / 0.185
HMP1367	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	6.70 / 0.264	2.40 / 0.094	11.20 / 0.441	4.40 / 0.173
HMP1375S	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	7.50 / 0.295	2.10 / 0.083	10.90 / 0.429	4.70 / 0.185
HMP1378	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	7.80 / 0.307	2.40 / 0.094	11.20 / 0.441	4.40 / 0.173
HMP1378S	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	7.80 / 0.307	2.10 / 0.083	10.90 / 0.429	4.70 / 0.185
HMP1380	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	8.00 / 0.315	2.40 / 0.094	11.20 / 0.441	4.40 / 0.173
HMP1390	12.70 ± 0.5 / 0.50 ± 0.02	13.00 ± 0.5 / 0.512 ± 0.02	9.00 / 0.354	2.40 / 0.094	11.20 / 0.441	4.40 / 0.173
HMP13100	12.70 ± 0.5 / 0.50 ± 0.02	13.50 ± 0.5 / 0.531 ± 0.02	10.00 / 0.394	2.40 / 0.094	11.20 / 0.441	4.40 / 0.173

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

PART NO.	L <sup>1</sup> (uH)	Li (uH) MIN	DCR (mΩ) MAX	Isat <sup>2</sup> (A dc)	I <sub>rms</sub> <sup>3</sup> (A dc)
HMP1362BM-1R6	1.6	1.28	2.20	30.0	21.0
HMP1362BM-2R0	2.0	1.60	2.20	23.0	21.0
HMP1362BM-2R2	2.2	1.76	2.20	22.0	21.0
HMP1362M-3R0	3.0	2.40	3.20	17.0	18.0
HMP1365S-0R3	0.3	0.24	0.90	56.0	40.0
HMP1365M-0R4	0.4	0.32	0.75	55.0	45.0
HMP1365SM-0R4	0.4	0.32	0.90	55.0	45.0
HMP1365M-0R5	0.5	0.40	0.75	44.0	45.0
HMP1365BM-1R5HS	1.5	1.20	3.40	38.0	17.0
HMP1365S-1R8	1.8	1.40	2.20	20.0	21.0
HMP1367B-1R5HS	1.5	1.20	2.50	33.0	11.0
HMP1375S-8R0	8.0	6.40	8.60	11.0	11.0
HMP1375S-100	10.0	8.00	10.30	10.0	10.0
HMP1378BM-1R0	1.0	0.80 ± 20%	1.00	35.0	35.0
HMP1378M-2R2	2.2	1.76	2.30	25.0	21.0
HMP1378M-2R4HS	2.4	2.16 ± 20%	2.30	16.0	21.0
HMP1378S-3R3	3.3	2.64	5.40	23.0	13.5
HMP1378S-120	12.0	9.60	11.50	9.0	9.0
HMP1380BM-6R0HS	6.0	4.80	5.00	12.0	14.0
HMP1380BM-6R8HS	6.8	5.50	8.40	12.0	11.0
HMP1390M-2R2HS	2.2	1.76	2.60	30.0	19.0
HMP13100-2R4HS	2.4	2.16 ± 20%	2.80	25.0	19.0

1. 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 : -20°C to 105°C ( including self-temperature rise ).



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