SMD High Current Power Inductor - HI0530 Series

Meisongbei



Features

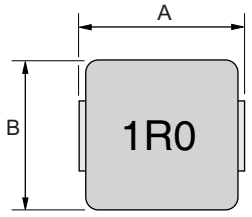
- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

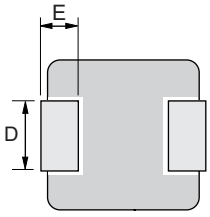
General Specifications

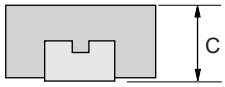
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

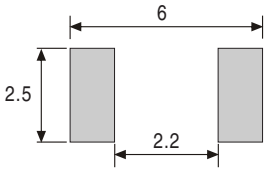
Shape and Dimensions (Unit:mm)







Recommended Layout



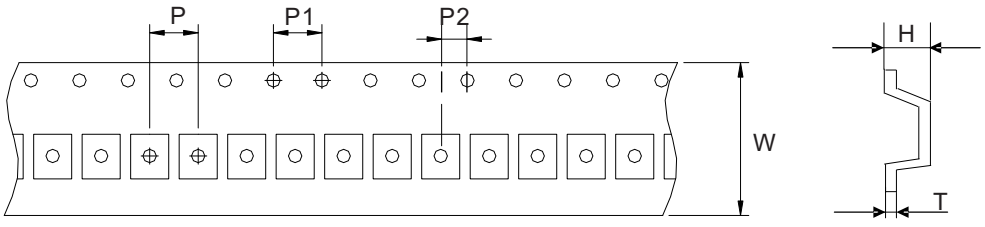
Type	A	B	C	D	E
HIP0530	5.7±0.3	5.2±0.2	2.8±0.2	2.0±0.3	1.2±0.2

Electrical Characteristics For HIP0530 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0530-R22M	0.22	4.4	21	15.5
HIP0530-R33M	0.33	5	18	14
HIP0530-R47M	0.47	7.4	16	12
HIP0530-R68M	0.68	12	14	8.5
HIP0530-R82M	0.82	13	12.5	8
HIP0530-1R0M	1.0	14	11	7
HIP0530-1R5M	1.5	25	10	6
HIP0530-2R2M	2.2	35	9	5.5
HIP0530-3R3M	3.3	38	8	5
HIP0530-4R7M	4.7	53	6	4.6
HIP0530-5R6M	5.6	63	4.5	4.25
HIP0530-6R8M	6.8	76.2	4.3	4
HIP0530-100M	10	128	3.5	2.75
HIP0530-150M	15	190	2.6	2.1
HIP0530-220M	22	250	1.7	1.9

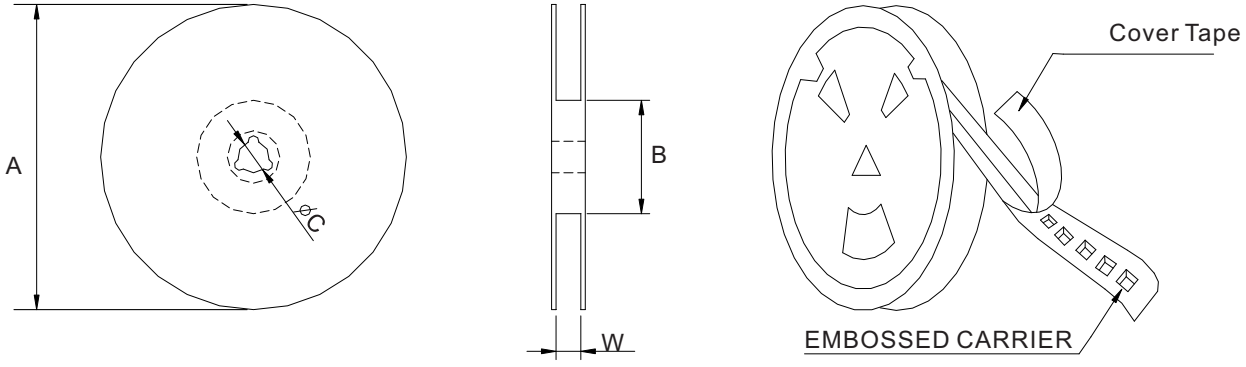
- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current

Tape & Reel Specifications:



Unit: mm

Type	Dimension	W	P	P1	P2	H	T
	Tolerance	±0.3	±0.1	±0.1	±0.1	±0.15	±0.05
HIP0530		12.0	8.0	4.0	2.0	3.30	0.35



Unit: mm

Type	Dimension	QTY Per Reel	A	B	C	W
	Tolerance	PCS	±2.0	±0.5	±0.5	±0.5
HIP0530		2000	330	97	13.2	12.8