SMD High Current Power Inductor - HIP0420 Series

Meisongbei



Features

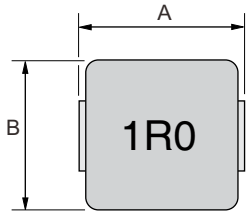
- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

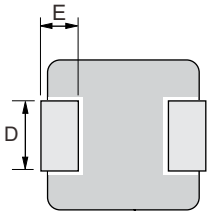
General Specifications

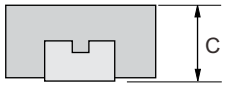
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

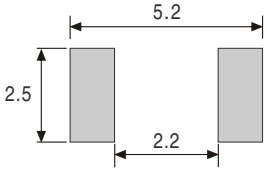
Shape and Dimensions (Unit:mm)







Recommended Layout



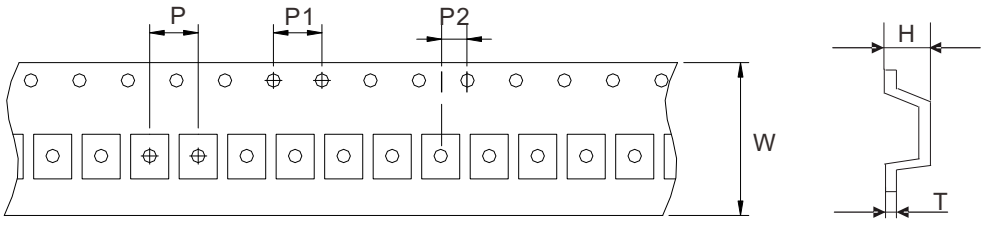
Type	A	B	C	D	E
HIP0420	4.4±0.35	4.2±0.25	1.8±0.2	2.0±0.3	0.8±0.3

Electrical Characteristics For HIP0420 Series @ 25°C

Part Number	Inductance (μH)	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0420-R10N	0.10 ±30%	4.0	35.0	12.0
HIP0420-R18N	0.18 ±30%	5.4	28.0	11.5
HIP0420-R22N	0.22 ±30%	7.3	24.0	11.0
HIP0420-R33M	0.33 ±30%	8.6	18.0	10.0
HIP0420-R47M	0.47 ±20%	14.0	12.0	8.0
HIP0420-R56M	0.56 ±20%	14.0	10.0	7.3
HIP0420-R68M	0.68 ±20%	19.0	10.0	7.0
HIP0420-1R0M	1.0 ±20%	27.5	8.5	5.0
HIP0420-1R2M	1.2 ±20%	30.0	7.8	4.8
HIP0420-1R5M	1.5 ±20%	42.0	7.0	4.5
HIP0420-2R2M	2.2 ±20%	61.0	6.0	4.0
HIP0420-3R3M	3.3 ±20%	90.0	4.0	3.5
HIP0420-4R7M	4.7 ±20%	105.0	3.5	2.6
HIP0420-5R6M	5.6 ±20%	125.0	3.0	2.2
HIP0420-6R8M	6.8 ±20%	172.0	2.8	2.1
HIP0420-8R2M	8.2 ±20%	180.0	2.5	2.0
HIP0420-100M	10.0 ±20%	243.0	2.3	1.8
HIP0420-150M	15.0 ±20%	374.0	1.9	1.5
HIP0420-220M	22.0 ±20%	500.0	1.4	1.2

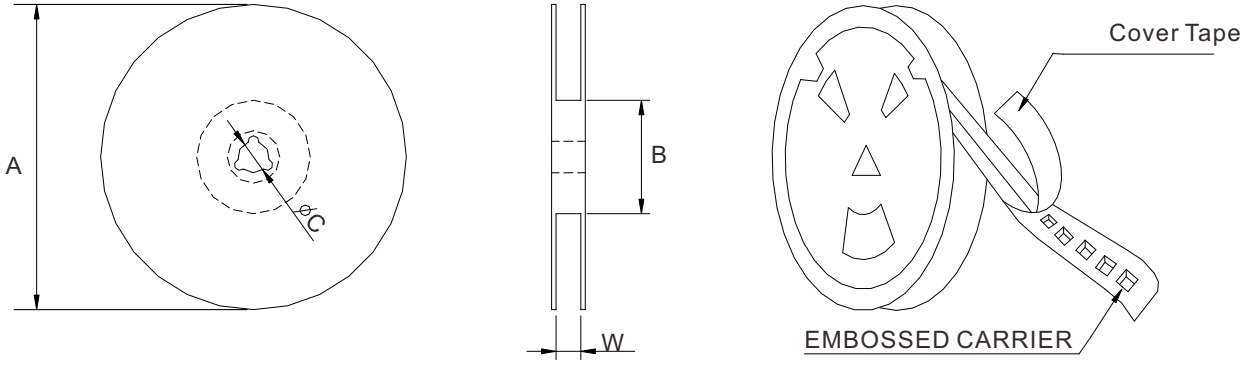
- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current

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
HIP0420		12.0	8.0	4.0	2.0	2.30	0.35



Unit: mm

Type	Dimension	QTY Per Reel	A	B	C	W
	Tolerance	PCS	±2.0	±0.5	±0.5	±0.5
HIP0420		3000	330	97	13	12.8