SMD High Current Power Inductor - HIP0320 Series

Meisongbei



Features

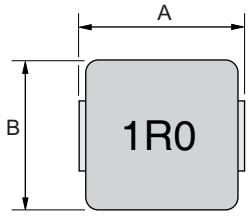
- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

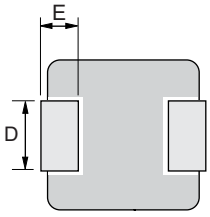
General Specifications

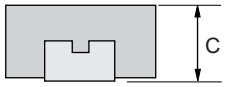
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

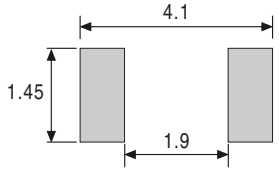
Shape and Dimensions (Unit:mm)







Recommended Layout



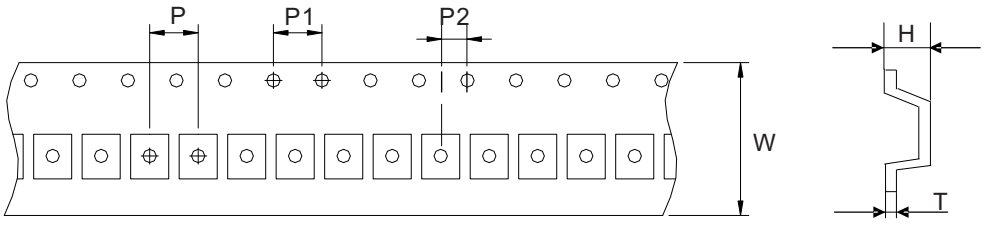
Type	A	B	C	D	E
HIP0320	3.4±0.3	3.2±0.3	1.8±0.2	1.2±0.2	0.7±0.2

Electrical Characteristics For HIP0320 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP0320-R33M	0.33	21	10	8
HIP0320-R47M	0.47	23	9	7
HIP0320-R68M	0.68	29	7	5.5
HIP0320-1R0M	1.0	38	5	4
HIP0320-1R5M	1.5	50	4	3.8
HIP0320-2R2M	2.2	75	3.7	3.5
HIP0320-3R3M	3.3	145	3.5	3
HIP0320-4R7M	4.7	200	3	2.6
HIP0320-5R6M	5.6	238	2.6	2.2
HIP0320-6R8M	6.8	300	2.2	1.9
HIP0320-8R2M	8.2	390	1.9	1.6
HIP0320-100M	10	422	1.6	1.4

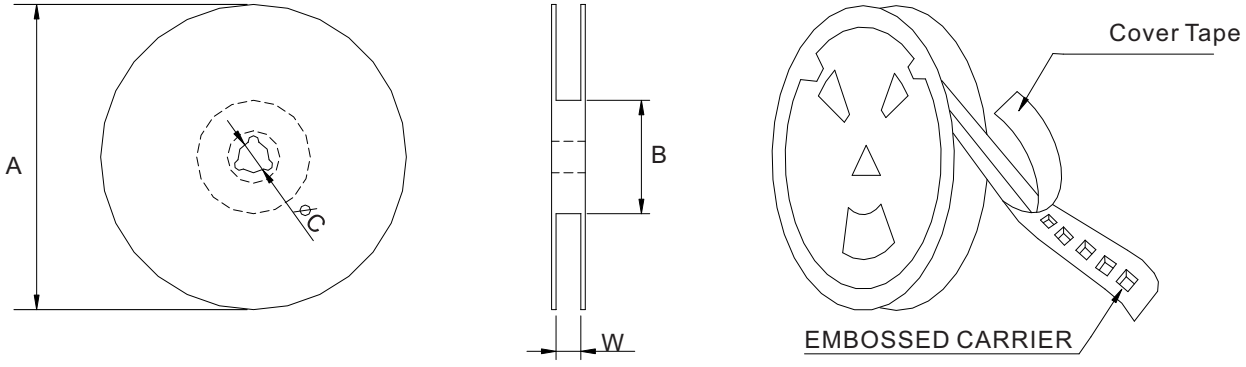
- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current

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
HIP0320		12.0	8.0	4.0	2.0	2.40	0.35



Unit: mm

Type	Dimension	QTY Per Reel	A	B	C	W
	Tolerance	PCS	±2.0	±0.5	±0.5	±0.5
HIP0320		3000	330	97	13	12.8