SMD High Current Power Inductor - HIP1265 Series

Meisongbei



Features

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

General Specifications

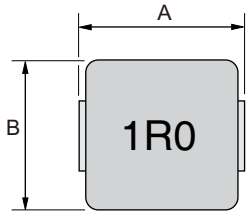
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1

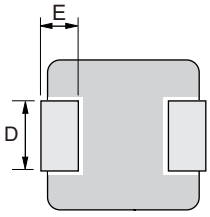
Note

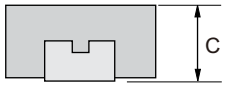
- HIP1265-R47M~1R5M Dimensions D:3.85±0.5
- HIP1265-2R2M~680M Dimensions D:4.7±0.5

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

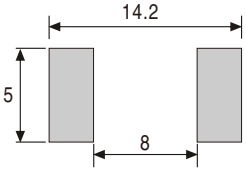
Shape and Dimensions (Unit:mm)







Recommended Layout



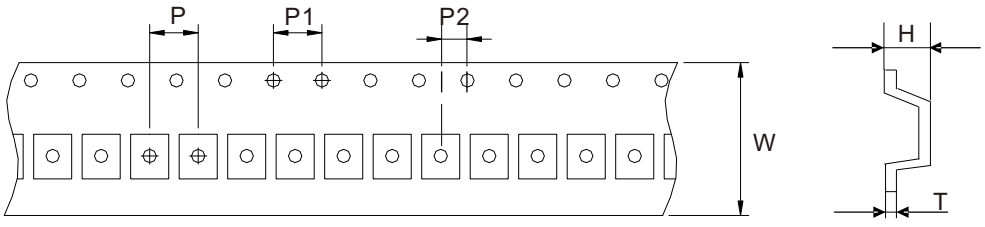
Type	A	B	C	D	E
HIP1265	13.5±0.5	12.6±0.3	6.2±0.3	3.85±0.5 / 4.7±0.5	2.0±0.5

Electrical Characteristics For HIP1265 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1265-R47M	0.47	1.2	63	41
HIP1265-R68M	0.68	1.5	55	35
HIP1265-1R0M	1.0	2.3	48	30
HIP1265-1R5M	1.5	3	45	27
HIP1265-2R2M	2.2	4.2	37	22
HIP1265-3R3M	3.3	6.8	30	18
HIP1265-4R7M	4.7	8.4	28	13.5
HIP1265-6R8M	6.8	11.5	18	11.5
HIP1265-8R2M	8.2	15.5	16	10.5
HIP1265-100M	10	16.5	15.5	10
HIP1265-150M	15	28	13	9
HIP1265-220M	22	37	12	9
HIP1265-330M	33	58	11	8
HIP1265-470M	47	90	9.5	6.5
HIP1265-680M	68	130	7.8	4.8

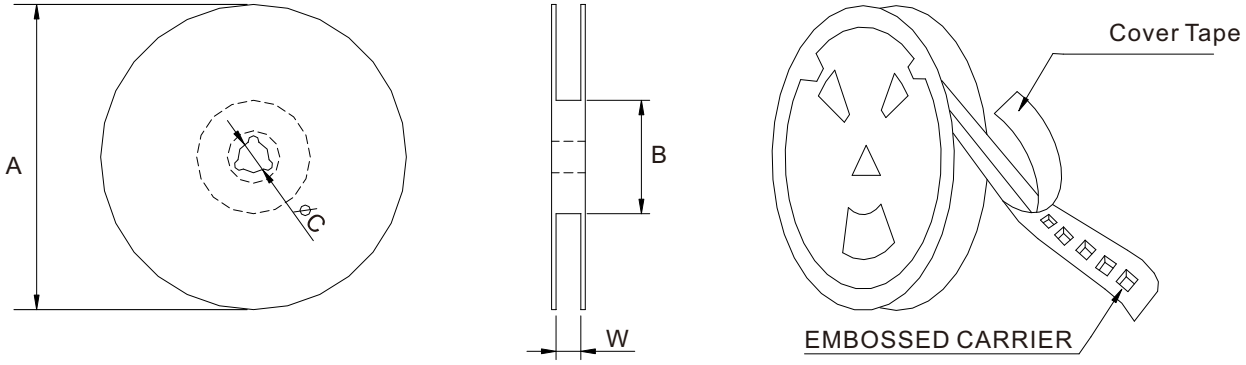
- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current

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
HI1265		24.0	16.0	4.0	2.0	6.80	0.50



Unit: mm

Type	Dimension	QTY Per Reel	A	B	C	W
	Tolerance	PCS	±2.0	±0.5	±0.5	±0.5
HI1265		500	330	97	13	24.8