SMD High Current Power Inductor - HIP1250 Series

Meisongbei



Features

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

General Specifications

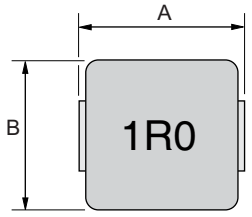
- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1

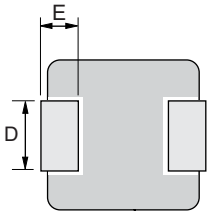
Note

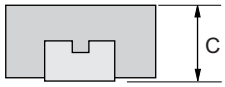
- HIP1250-R33M~1R5M Dimensions D:3.85±0.5
- HIP1250-2R2M~330M Dimensions D:4.7±0.5

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

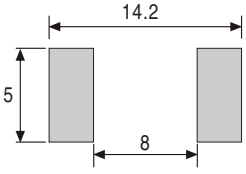
Shape and Dimensions (Unit:mm)







Recommended Layout



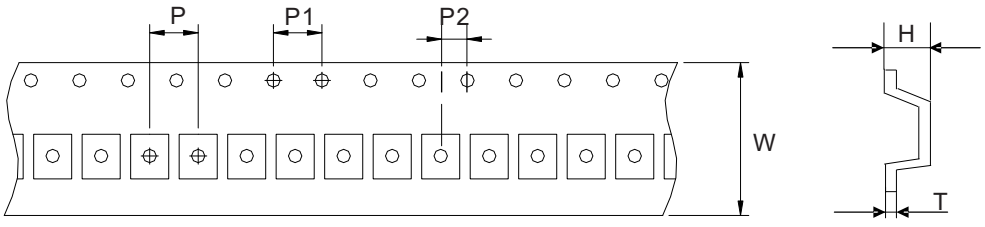
Type	A	B	C	D	E
HIP1250	13.5±0.5	12.6±0.3	4.7±0.3	3.85±0.5 / 4.7±0.5	2.0±0.5

Electrical Characteristics For HIP1250 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1250-R33M	0.33	0.9	80	42
HIP1250-R47M	0.47	1.1	65	38
HIP1250-R56M	0.56	1.5	55	36
HIP1250-R68M	0.68	1.7	54	34
HIP1250-R82M	0.82	2.1	52	31
HIP1250-1R0M	1.0	2.5	50	29
HIP1250-1R5M	1.5	3.3	48	27
HIP1250-2R2M	2.2	5.5	32	20
HIP1250-3R3M	3.3	9.2	32	15
HIP1250-4R7M	4.7	15	27	12
HIP1250-5R6M	5.6	16.5	22	11.5
HIP1250-6R8M	6.8	18.5	21	11
HIP1250-8R2M	8.2	22.5	18	9.5
HIP1250-100M	10	25.5	16	9
HIP1250-150M	15	38	13	8.2
HIP1250-220M	22	58	10	6.5
HIP1250-330M	33	88	8	5

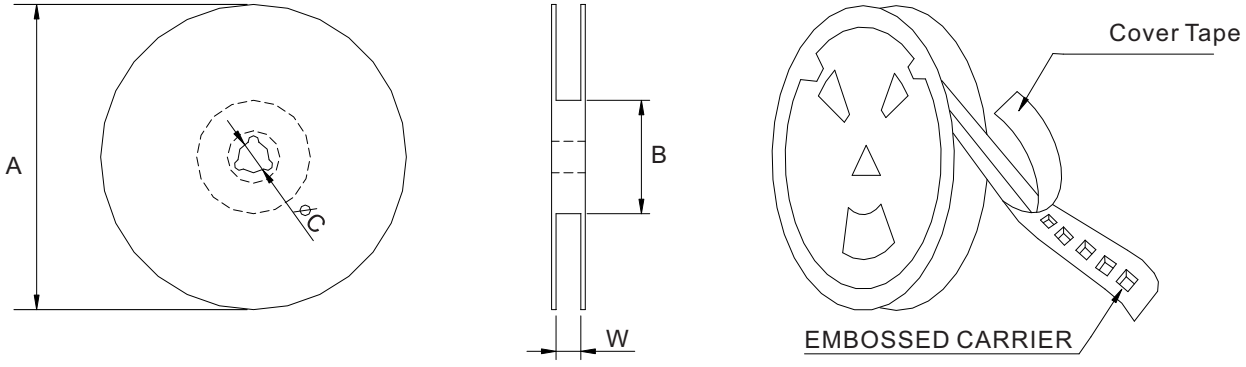
- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current

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
HIP1250		24.0	16.0	4.0	2.0	5.40	0.50



Unit: mm

Type	Dimension	QTY Per Reel	A	B	C	W
	Tolerance	PCS	±2.0	±0.5	±0.5	±0.5
HIP1250		500	330	97	13	24.8