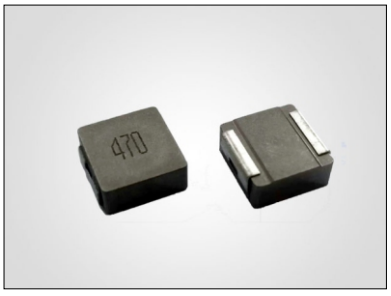
SMD High Current Power Inductor - HIP1770 Series

Meisongbei



Features

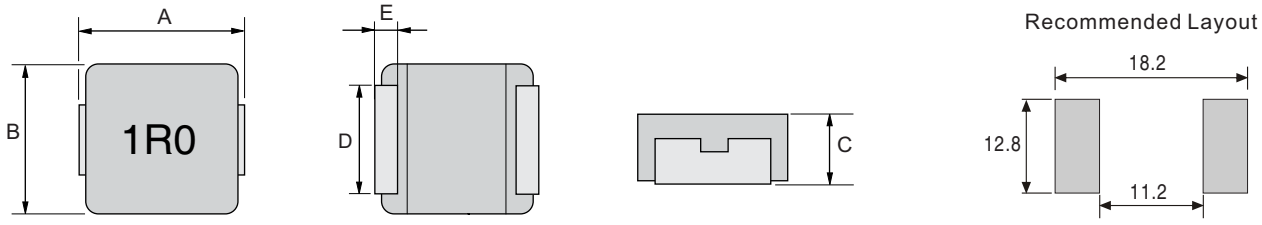
- Shielded Construction
- Core Material: **Carbonyl powder**
- High Current, low DCR, high efficiency
- RoHS, Halogen Free and REACH compliance

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)



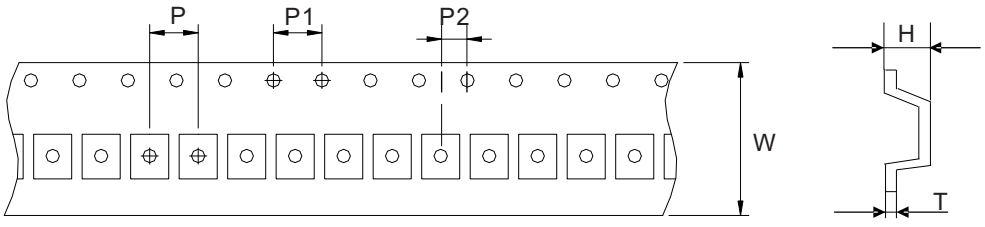
Type	A	B	C	D	E
HIP1770	17.5±0.5	17.0±0.3	7.0Max	12.0±0.3	2.5±0.5

Electrical Characteristics For HIP1770 Series @ 25°C

Part Number	Inductance (μH) ±20%	DCR (mΩ) Max.	Isat (A) Typ.	Irms (A) Typ.
HIP1770-1R0M	1.0	2	70	52
HIP1770-1R5M	1.5	2.5	65	47
HIP1770-2R2M	2.2	2.7	62	43.5
HIP1770-3R3M	3.3	3.9	54	28
HIP1770-4R7M	4.7	5.5	50	25
HIP1770-6R8M	6.8	9.2	39	19
HIP1770-8R2M	8.2	10.8	31	18
HIP1770-100M	10	13	29	16.5
HIP1770-150M	15	20.5	27	12.5
HIP1770-220M	22	26.5	23	12
HIP1770-330M	33	44	20	10.7
HIP1770-390M	39	48	18	9.2
HIP1770-470M	47	55	16	8.7
HIP1770-560M	56	62	15	7.8
HIP1770-680M	68	80	13	7
HIP1770-101M	100	118	12	5.3

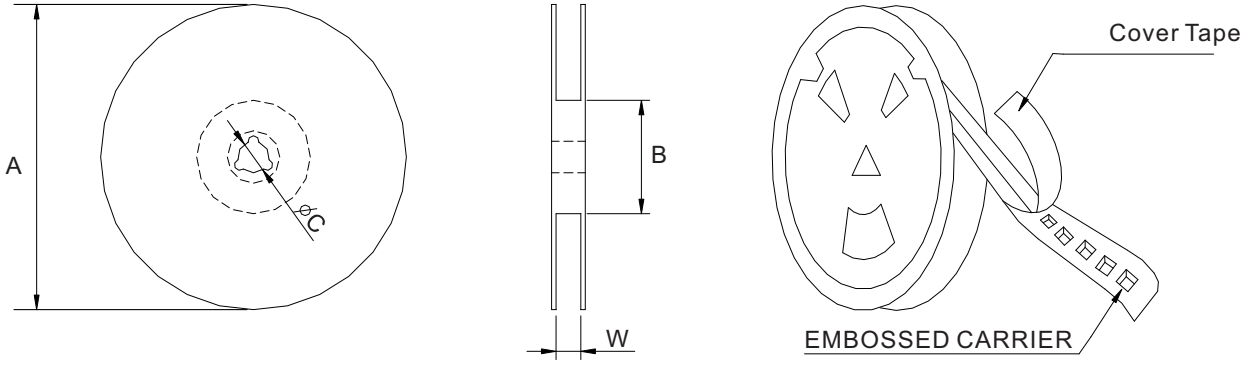
- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current

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
HIP1770		32.0	24.0	4.0	2.0	7.30	0.50



Unit: mm

Type	Dimension	QTY Per Reel	A	B	C	W
	Tolerance	PCS	±2.0	±0.5	±0.5	±0.5
HIP1770		200	330	97	13	32.8