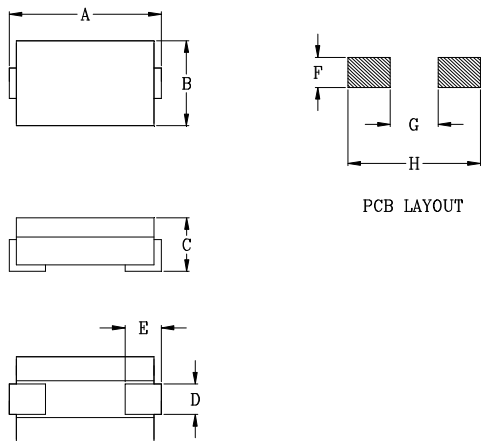


Cyntec P/N : HCB1050 Series

Mechanical Dimensions



Dimensions (Unit : mm)

	0.33 mΩ	0.39 mΩ	0.55 mΩ	0.245 mΩ
A	10.2 MAX			10.4MAX
B	7.0 MAX			
C	5.0MAX			5.2MAX
D	2.5			
E	2.0			
F	3.0			
G	5.3			
H	10.5			10.9

Electrical Characteristics

Part Number	L0 Inductance (nH) @ (0A)	Li (nH)	DCR (mΩ)	Heat Rating Current DC Amps. I _{dc} (A)	Saturation Current DC Amps. I _{sat} (A)
HCB1050-800L1	80	64	0.33 ± 6 %	40	92
HCB1050-900L1	90	72			83
HCB1050-101L1	100	80			75
HCB1050-121L1	120	96			63
HCB1050-151L1	150	120			48
HCB1050-181L1	180	144			40
HCB1050-221L1	220	176			34
HCB1050-800	80	64	0.39 ± 7.7%	37	92
HCB1050-900	90	72			83
HCB1050-101	100	80			75
HCB1050-121	120	96			63
HCB1050-151	150	120			48
HCB1050-181	180	144			40
HCB1050-221	220	176			34
HCB1050-800H	80	64	0.55 ± 7.3%	31	92
HCB1050-900H	90	72			83
HCB1050-101H	100	80			75
HCB1050-121H	120	96			63
HCB1050-151H	150	120			48
HCB1050-181H	180	144			40
HCB1050-221H	220	176			34
HCB1050-800L	80	64	0.245 ± 7 %	46	92
HCB1050-900L	90	72			83
HCB1050-101L	100	80			75
HCB1050-121L	120	96			63
HCB1050-151L	150	120			48
HCB1050-181L	180	144			40
HCB1050-221L	220	176			34

*: Inductance Tolerance ± 20%

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : Test Condition;100KHz, 1.0Vrms

Note 3. : I_{sat} is the DC current which cause the inductance drop to Li

Note 4. : I_{dc} is the DC current which cause the surface temperature of the part increase approximately 40 °C.

Note 5. : Operating temperature: -40°C to 125°C (Self-temperature rise included).

Note 6. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Current Characteristic

