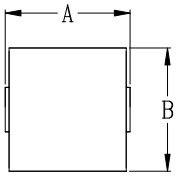
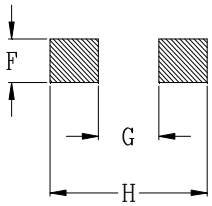
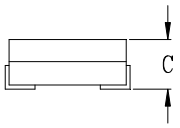
Cyntec P/N : HCB0730 Series

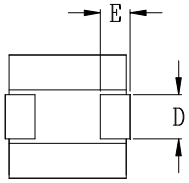
■ Mechanical Dimensions





PCB LAYOUT





Dimensions (Unit : mm)

	0.24 & 0.3 mΩ	0.15 mΩ
A	7.0 MAX	7.3 MAX
B	7.0 MAX	7.0 MAX
C	3.0 MAX	3.4MAX
D	2.5	2.5
E	1.5	1.5
F	3.0	3.0
G	3.3	3.6
H	7.5	7.6

Electrical Characteristics

Part Number	L0 Inductance (nH) @ (0A)	**Li** (nH)	DCR (mΩ)	Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
HCB0730-470	47	32.9	0.24 ± 10%	39	42
HCB0730-680	68	47.6			32
HCB0730-820	82	57.4			26
HCB0730-101	100	70.0			22
HCB0730-111	110	77.0			20
HCB0730-121	120	84.0			18
HCB0730-470H	47	32.9	0.30 ± 10%	35	42
HCB0730-680H	68	47.6			32
HCB0730-820H	82	57.4			26
HCB0730-101H	100	70.0			22
HCB0730-111H	110	77.0			20
HCB0730-121H	120	84.0			18
HCB0730-470L	47	32.9	0.15 ± 15%	49	42
HCB0730-680L	68	47.6			32
HCB0730-820L	82	57.4			26
HCB0730-101L	100	70.0			22
HCB0730-111L	110	77.0			20

*: Inductance Tolerance ± 20%

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

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

Note 3.： Isat is the DC current which cause the inductance drop to Li

Note 4.： Idc is the DC current which cause the surface temperature of the part increase approximately 40 ℃.

Note 5.： Operating temperature: -40℃ to 125℃ (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