



# SuperButton® Contact Element Specifications (12 Wire)

HCD SuperButton® is constructed from Cu-alloy wires surrounded by a polymeric jacket. SuperButton® contact elements are assembled into an FR-4 interposer and can be designed to virtually any custom array size or pattern. HCD's SuperButton® Land Grid Array products provide high performance connectivity for package-to-board, board-to-board, and flex-to-board connections.

## Type SB01: Pitch 1mm and up

	BCAA-40
Free Length:	1mm [40]
Outside Diameter:	0.63 [25]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.2 [8]
Contact resistance:	< 10 mΩ
Capacitance:	0.032 pF
Inductance:	0.29 nH
Bandwidth:	26 GHz

## BCAA-80

	BCAA-80
Free Length:	2mm [80]
Outside Diameter:	0.63 [25]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.3 [12]
Contact resistance:	< 10 mΩ
Capacitance:	0.077 pF
Inductance:	0.46 nH
Bandwidth:	11.4 GHz

## BCAA-120

	BCAA-120
Free Length:	3mm [120]
Outside Diameter:	0.63 [25]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.4 [16]
Contact resistance:	< 10 mΩ
Capacitance:	0.12 pF
Inductance:	0.6 nH
Bandwidth:	7 GHz



## Type SB02: Pitch 0.8 mm and up

	BCCB-40
Free Length:	1mm [40]
Outside Diameter:	0.53 [21]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.2 [8]
Contact resistance:	< 10 mΩ
Capacitance:	0.02 pF
Inductance:	0.4 nH
Bandwidth:	28 GHz

## BCCB-80

	BCCB-80
Free Length:	2mm [80]
Outside Diameter:	0.53 [21]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.3 [12]
Contact resistance:	< 10 mΩ
Capacitance:	0.039 pF
Inductance:	0.68 nH
Bandwidth:	19 GHz

## BCCB-120

	BCCB-120
Free Length:	3mm [120]
Outside Diameter:	0.53 [21]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.4 [16]
Contact resistance:	< 10 mΩ
Capacitance:	0.06 pF
Inductance:	0.9 nH
Bandwidth:	12 GHz



## Type SB03: Pitch 0.75mm and up

	BCEB-40
Free Length:	1mm [40]
Outside Diameter:	0.46 [18]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.2 [8]
Contact resistance:	< 10 mΩ
Capacitance:	0.02 pF
Inductance:	0.35 nH
Bandwidth:	30 GHz

## BCEB-80

	BCEB-80
Free Length:	2mm [80]
Outside Diameter:	0.46 [18]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.28 [11]
Contact resistance:	< 10 mΩ
Capacitance:	0.046 pF
Inductance:	0.63 nH
Bandwidth:	16 GHz

## BCEB-120

	BCEB-120
Free Length:	3mm [120]
Outside Diameter:	0.46 [18]
Min. contact force:	20g
Max force:	120g
Min travel:	0.1 [4]
Max travel:	0.38 [15]
Contact resistance:	< 10 mΩ
Capacitance:	0.06 pF
Inductance:	0.9 nH
Bandwidth:	10 GHz



Units: mm and [mils]

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