

SMD contacts are ideal for laying in CMS. They are supplied in bulk or coil, sometimes in tape when the coil is not whole. This means that SMD contacts are perfect for mass production using automatic assembly units.

Our SMD contacts are gold plated in standard version. With the exception of the «Royal Water» (a mixture of hydraulic acid and nitric acid), the latter is not aggressive towards gold. Gold provides excellent protection against corrosion. In addition, the GOLD-plated surface is ideal for welding. Naturally, other finishes are possible (such as Nickel or Tin) and can be supplied on request for large quantities. SMD contacts are safe and very durable. They also have an almost unlimited lifetime if their crush rate is respected.

The CuBe is easy to work with and resistant to corrosion and abrasion. Even high temperatures and temperature fluctuations or high mechanical stresses have no influence on its excellent contact properties. In addition, the CuBe is extraordinarily elastic and can withstand much more bending than a simple steel spring for example.



Application areas

- Continuity between the mass of the PCB and its housing
- HF signal connection with low impedance between 2 PCBs
- Refresh HF signals
- Connection between 2 power or other signal PCBs
- Connexion du PCB avec des éléments extérieurs (antenne,...)

General information

- Design possible according to customer plan
- Excellent thermal and electrical conductivity
- Resistant to corrosion and abrasion
- High temperature resistant



Technical Characteristics

Features	Units / Data	Values
Base material	CuBe (Beryllium Copper)*	
Intermediate layer	µm / Nickel (Ni)	1 à 2
Surface treatment	µm/ GOLD plated (Au)	0,025 à 0,075
Height	mm	1,5 à 13
Density	g/cm3	8,36
Thermal conductivity	cal/(cm.s.°C)	0,24 à 0,26
Melting point	°C	860 à 980
Hardness	Diamond pyramid	350 to 450 (before heat treatment)
Packaging	Tape & reel	quantity per roll according to contact size

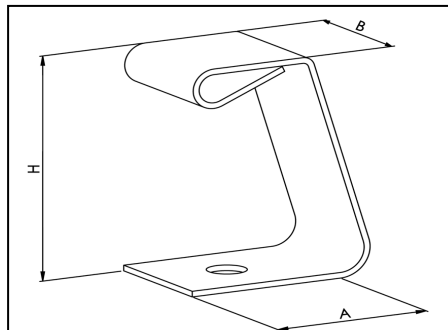
*Attention some references are in other materials as standard (indicated by a * in the tables below).

The technical sheets of the PCB layout description can be provided on request to AB2E.

Contacts SMD

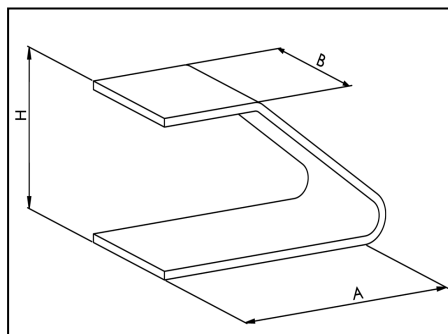
+ Shape & dimensions - Type 1

Size	Thickness Material	Height H	Length A	Width B
A	0.1	3.5	4.5	2.5
B	0.1	3.6	4.5	2.5
C	0.1	4	3	2
D	0.15	4.5	4.8	2.5
E	0.1	4.8	4.5	2



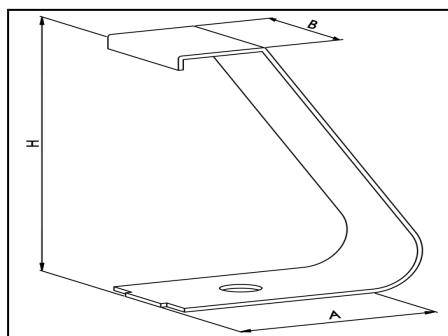
+ Shape & dimensions - Type 2

Size	Thickness Material	Height H	Length A	Width B
A	0.08	1.5	2.7	1.5
B	0.1	2	3.8	2



+ Shape & dimension - Type 3

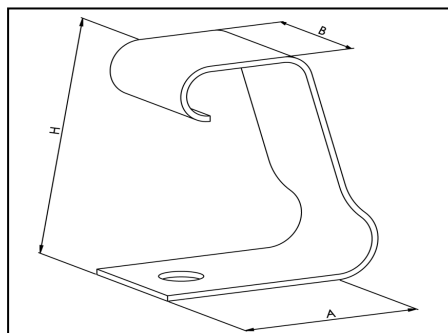
Size	Thickness Material	Height H	Length A	Width B
A	0.08	1.5	3.2	1.5
B	0.08	1.5	3.2	2
C*	0.1	2	2.7	1.5
D	0.08	2.1	4	2
E	0.08	3.5	3.2	2
F	0.1	3.6	5	2.5
G	0.1	4	3	2
H	0.1	4.3	4.1	2.5
I	0.15	4.5	4	2.5
J	0.1	4.8	6.2	2.5
K	0.08	5.5	4	2
L	0.15	5.5	6.9	2.5



*Standard material: Titanium Copper

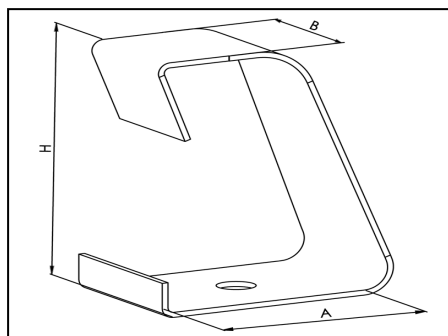
Shape & dimension - Type 4

Size	Thickness Material	Height H	Length A	Width B
A	0.1	3.5	4.3	2.5
B	0.1	5	4	2.5
C	0.12	5	4.3	2.5
D	0.1	5.3	4	2
E	0.1	5.4	4	2.5
F	0.1	6	6	2



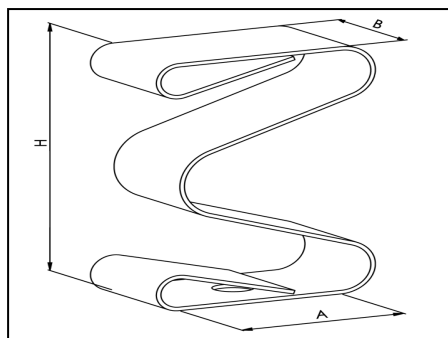
Shape & dimension - Type 5

Size	Thickness Material	Height H	Length A	Width B
A	0.1	3.5	3.5	2
B	0.1	4	3	2.5
C	0.1	5	4	2.5
D	0.1	5.7	4.7	2



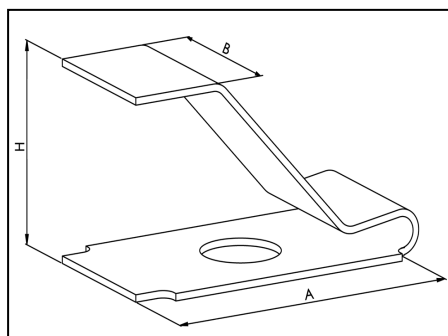
Shape & dimension - Type 6

Size	Thickness Material	Height H	Length A	Width B
A	0.1	7	4.8	2.5
B	0.1	9	7	2.5
C	0.1	10	6	3
D	0.1	11.3	6	3



Shape & dimension - Type 7

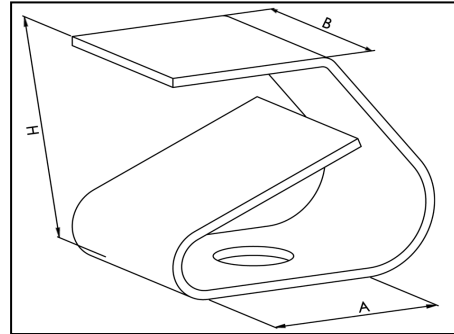
Size	Thickness Material	Height H	Length A	Width B
A	0.08	2	4	2.2
B	0.08	2.2	4	2.2
C	0.08	1	2.08	0.8



Contacts SMD

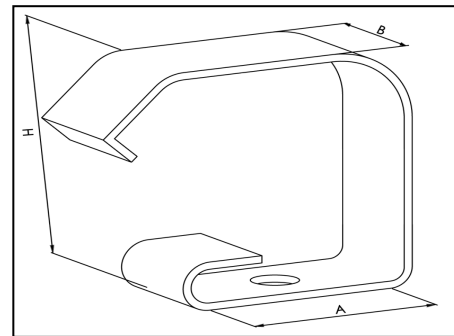
+ Shape & dimension - Type 8

Size	Thickness Material	Height H	Length A	Width B
A	0.08	2.5	3	2



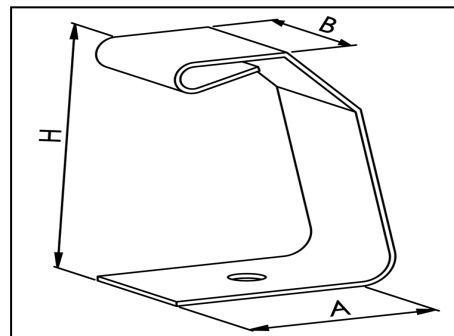
+ Shape & dimension - Type 9

Size	Thickness Material	Height H	Length A	Width B
A	0.15	5	5.8	2



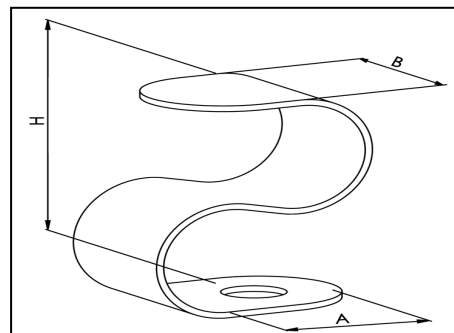
+ Shape & dimension - Type 10

Size	Thickness Material	Height H	Length A	Width B
A	0.1	4.8	4.5	2.5
B	0.1	5.5	4	2.5
C	0.1	6	4	2.5



+ Shape & dimension - Type 11

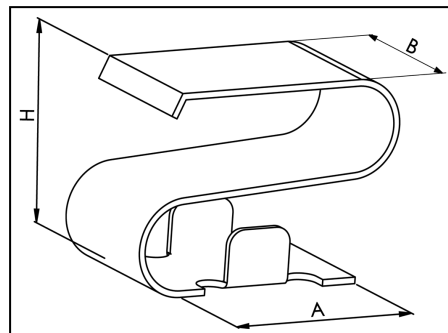
Size	Thickness Material	Height H	Length A	Width B
A	0.08	3.1	3	2
B	0.1	3.6	3	2



Contacts SMD

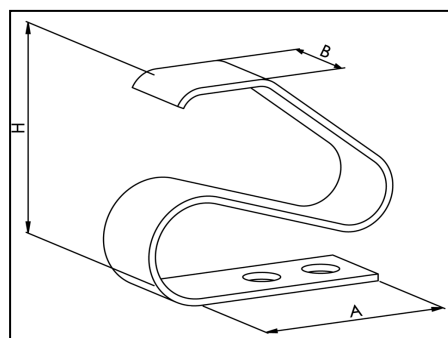
+ Shape & dimension - Type 12

Size	Thickness Material	Height H	Length A	Width B
A	0.08	2.2	2.74	1.3
B	0.08	2.2	2.7	2
C	0.08	2.5	3.5	1.8



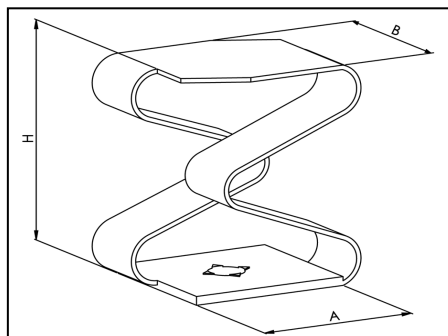
+ Shape & dimension - Type 13

Size	Thickness Material	Height H	Length A	Width B
A	0.1	3.2	3.7	1.2



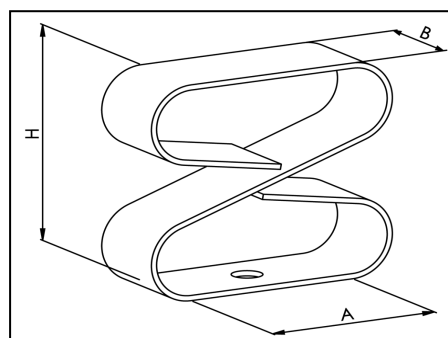
+ Shape & dimension - Type 14

Size	Thickness Material	Height H	Length A	Width B
A	0.08	4	3.5	2.5
B	0.1	9.8	8.5	3.5



+ Shape & dimension - Type 15

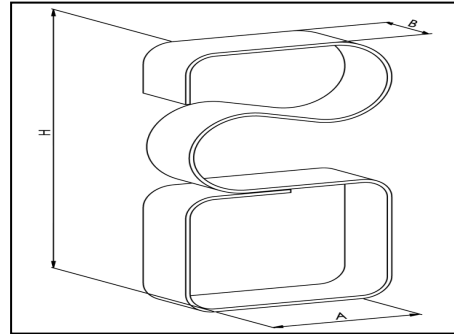
Size	Thickness Material	Height H	Length A	Width B
A	0.1	3.7	4	2
B	0.1	4.5	4.5	2
C	0.15	6.2	7	2.5
D	0.1	7.5	7	2.5
E	0.12	9	7	2.5
F	0.12	10	7	2.5
G	0.15	13	9	2.5



Contacts SMD

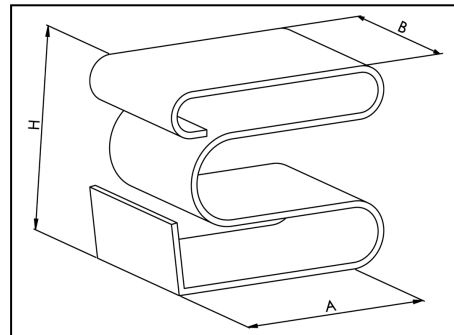
Shape & dimension - Type 16

Size	Thickness Material	Height H	Length A	Width B
A	0.12	7	4.5	2
B	0.15	8	6.5	2.5
C	0.15	12	7	2.5
D	0.15	13	7	2.5



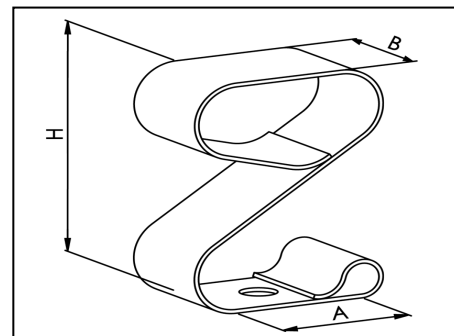
Shape & dimension - Type 17

Size	Thickness Material	Height H	Length A	Width B
A	0.08	2.5	3	2
B	0.08	3	3	2
C	0.08	3.5	3	2
D	0.08	4.2	3.5	2
E	0.1	6.2	3.8	2
F	0.1	7	4.5	2



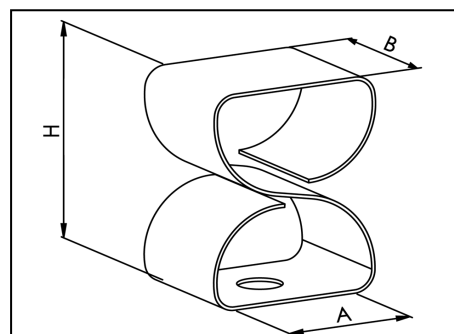
Shape & dimension - Type 18

Size	Thickness Material	Height H	Length A	Width B
A	0.1	6	4.5	2.5



Shape & dimension - Type 19

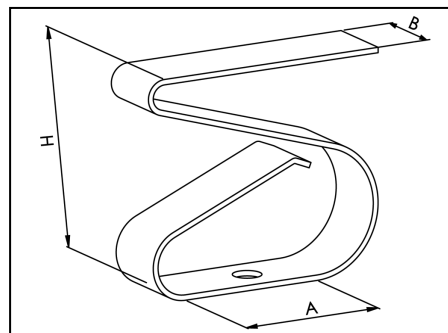
Size	Thickness Material	Height H	Length A	Width B
A	0.08	5.1	4	3



Contacts SMD

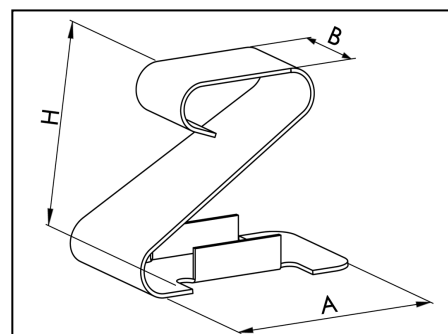
Shape & dimension - Type 20

Size	Thickness Material	Height H	Length A	Width B
A	0.08	3.1	3	2
B	0.08	4.1	4	2.5
C**	0.1	4.2	3.5	2
D	0.15	6.2	7	2



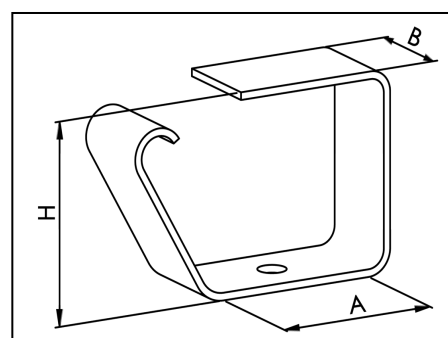
Shape & dimension - Type 21

Size	Thickness Material	Height H	Length A	Width B
A**	0.08	2.8	2.88	2
B**	0.1	3.4	3.5	1.4
C	0.09	3.5	3.8	2.5
D	0.08	4	5	3
E	0.08	4.07	4.4	2.8
F	0.1	5.5	5	3
G	0.1	7	5	3
H	0.1	7.5	5	3
I	0.1	5	5	3
J	0.1	6	5	3



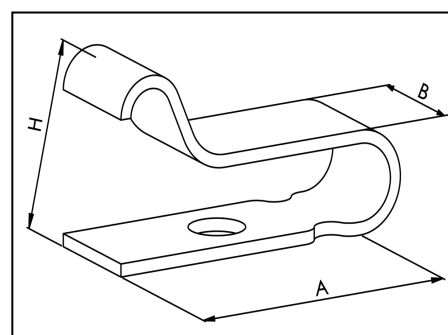
Shape & dimension - Type 22

Size	Thickness Material	Height H	Length A	Width B
A	0.15	4	6	2



Shape & dimension - Type 23

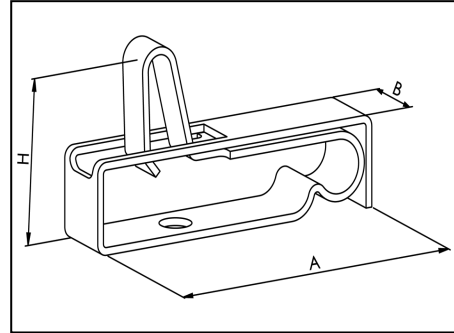
Size	Thickness Material	Height H	Length A	Width B
A	0.1	1.5	2.8	1



Contacts SMD

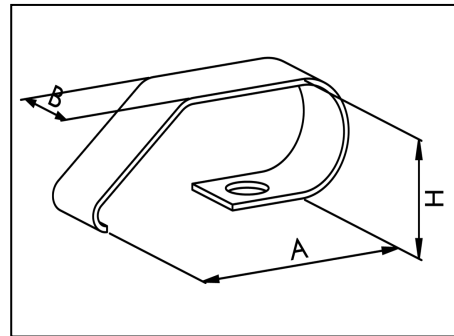
+ Shape & dimension - Type 24

Size	Thickness Material	Height H	Length A	Width B
A	0.12	1.6	3.2	0.8
B	0.08	1.8	3.5	1
C**	0.08	2.1	2.95	1
D	0.1	2.5	4.8	1
E	0.12	3.2	3.6	1.2
F	0.1	3.5	3	2



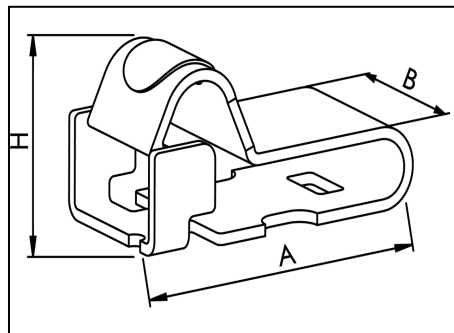
+ Shape & dimension - Type 25

Size	Thickness Material	Height H	Length A	Width B
A**	0.1	2	5.5	1.5
B**	0.1	3	7.5	2



+ Shape & dimension - Type 26

Size	Thickness Material	Height H	Length A	Width B
A	0.08	1.2	2.6	1
B	0.1	1.28	2.5	1
C	0.1	1.5	3	2
D	0.1	2	3.5	1.5
E	0.15	3	4.5	1.5
F	0.15	4	4.7	1.1



The results were obtained under laboratory conditions and should be considered only as an indication. As AB2E has no control over its customers' equipment and many other factors, it is the user's responsibility to carry out its own tests to ensure that the product corresponds to its needs.