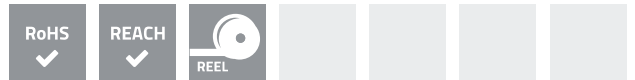


SMD contact springs are ideal for automatic assembly on printed circuit boards. They are soldered by the standard reflow-soldering process.

The standard basic material used for SMD contact springs is copper beryllium (CuBe). However, other materials can also be supplied.

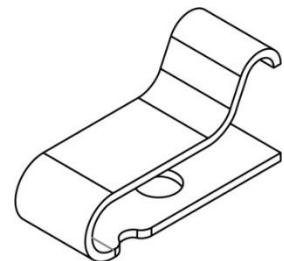
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

- Ideal for automatic assembly
- Standard basic material: CuBe
- Standard plating: AU
- Available in different dimensions and types
- Almost unlimited working life

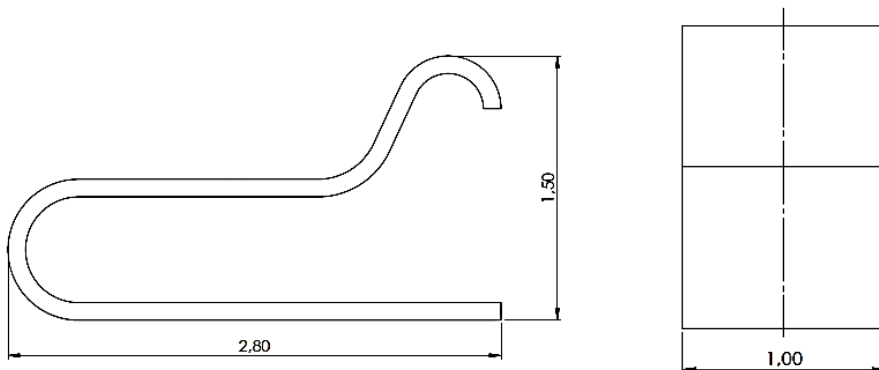


### PRODUCT SPECIFICATIONS

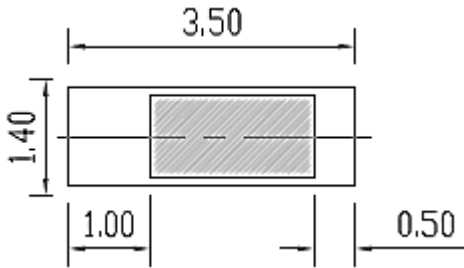
PROPERTY		VALUE / TOLERANCE
Thickness		0,10 mm
Width		1,00 mm ± 0,2
Length		2,80 mm ± 0,2
Height		1,50 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer Ni Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



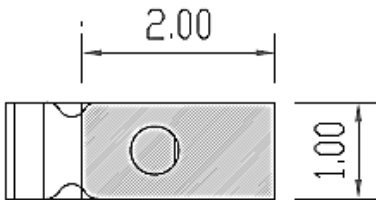
### DIMENSIONS (mm)



**RECOMMENDED RESERVED AREA ON THE PCB (mm)**



**RECOMMENDED PAD FOR THE PCB (mm)**



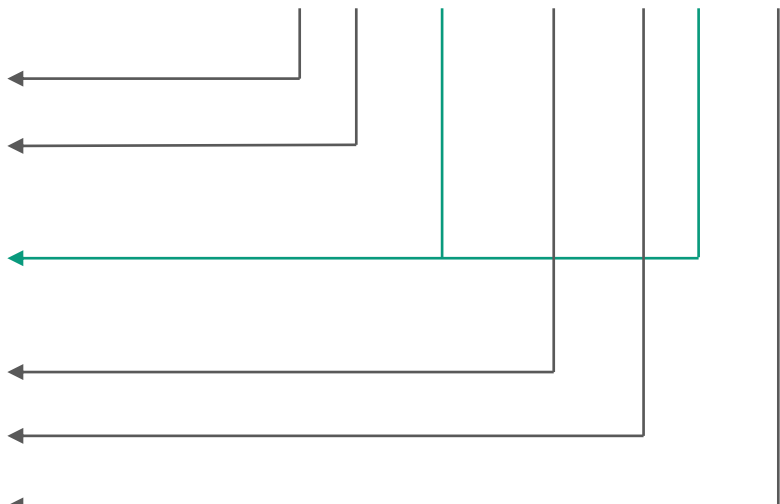
**DISCLAIMER**

This is only a recommendation based on information available to mtc at the time of printing. Actual land pattern can be significantly different due to various materials and processes used in PCB assembly. mtc makes no representation or warranty of performance based on the recommended land pattern.

**BUILDING AN ITEM NUMBER**

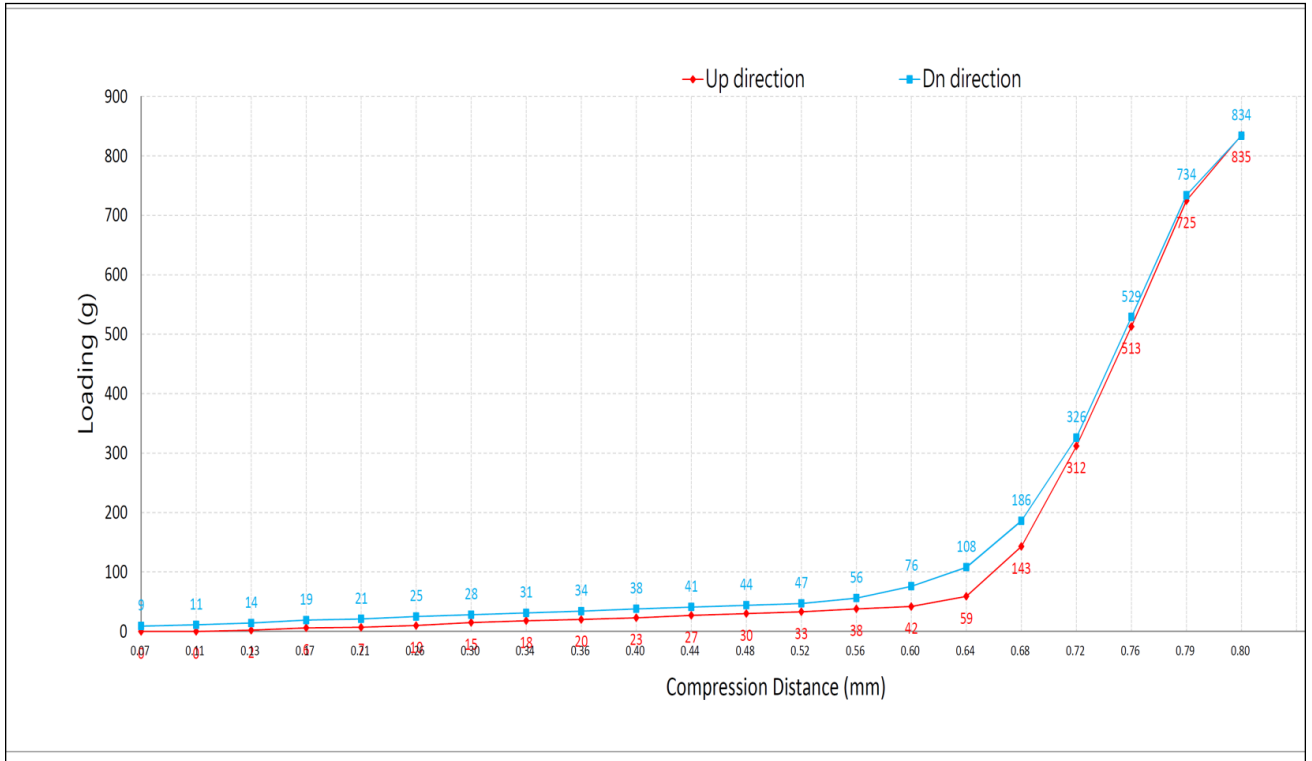
**FCB-23CX10280150B-YY-SMD**

Contact Spring	
Type number	
G/AU	Gold-plated
S/SN	Tin-plated
A/AG	Silver-plated
Dimensions	
Copper beryllium	
SMD type	



**Standard options**

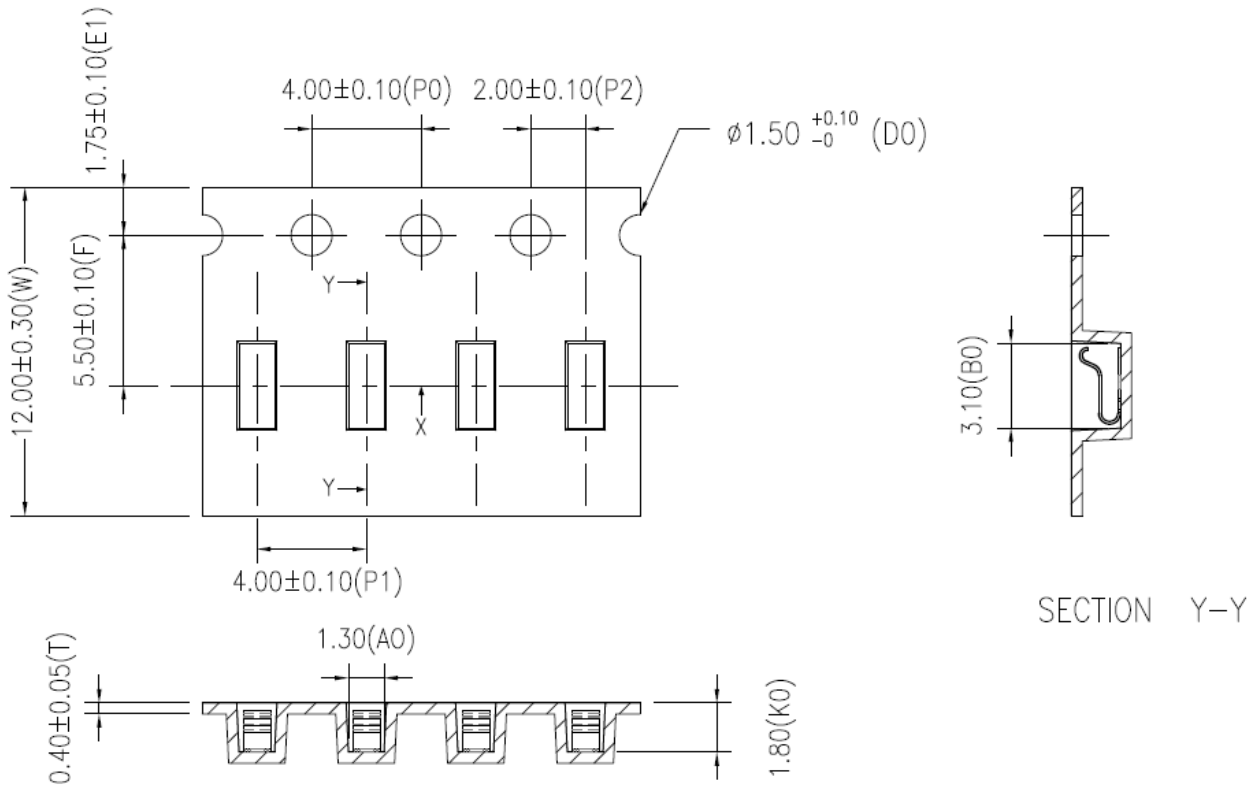
**FORCE DEFLECTION DIAGRAM\***



Total Compression Distance(mm)	0.80	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.07	9	0
0.11	11	0
0.13	14	2
0.17	19	6
0.21	21	7
0.26	25	10
0.30	28	15
0.34	31	18
0.36	34	20
0.40	38	23
0.44	41	27
0.48	44	30
0.52	47	33
0.56	56	38
0.60	76	42
0.64	108	59
0.68	186	143
0.72	326	312
0.76	529	513
0.79	734	725
0.80	834	835

**NOTE** | \* Only valid for gold-plated version

**PACKING SPECIFICATION – TAPE AND REEL (mm)**



	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>
	1,30	3,10	1,80
Tolerance	± 0,20	± 0,20	± 0,20

- Part conforms to EIA-481-D standards
- All dimensions in millimetres unless otherwise stated
- Material: conductive polystyrene
- Component packing to 13" reel: 8.000 pcs
- Component packing to 7" reel: 2.000 pc

Modifications and errors excepted. The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verifications and testings to determine the suitability for their own particular purpose of any information or products referred to herein.