SMD CONTACT SPRINGS
FCB-01CX2548045B-YY-SMD

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.

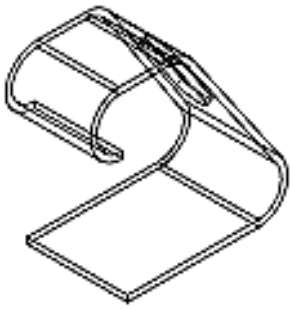
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

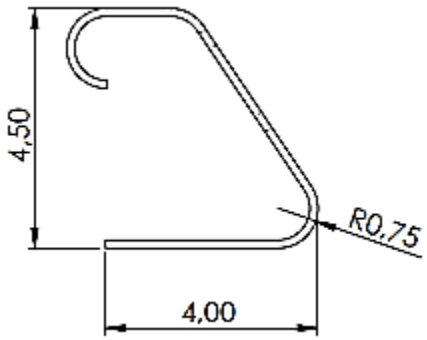
RoHS ✓ REACH ✓ REEL

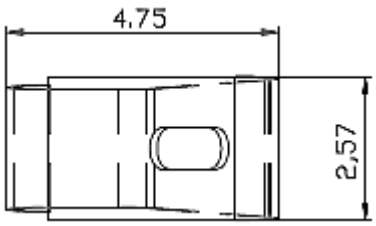
PRODUCT SPECIFICATIONS

PROPERTY		VALUE / TOLERANCE
Thickness		0,15 mm
Width		2,57 mm ± 0,2
Length		4,75 mm ± 0,2
Height		4,50 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



DIMENSIONS (mm)





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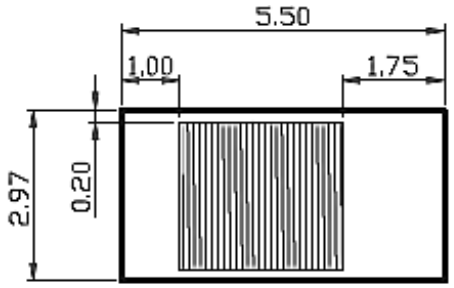
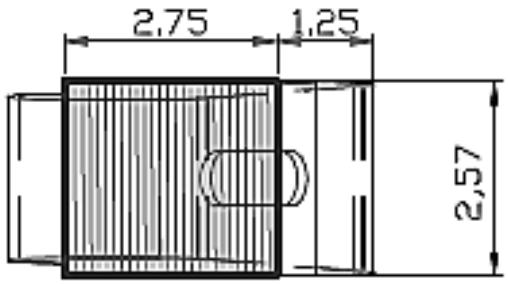
RECOMMENDED RESERVED AREA ON THE PCB (mm)



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-01CX2548045B-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

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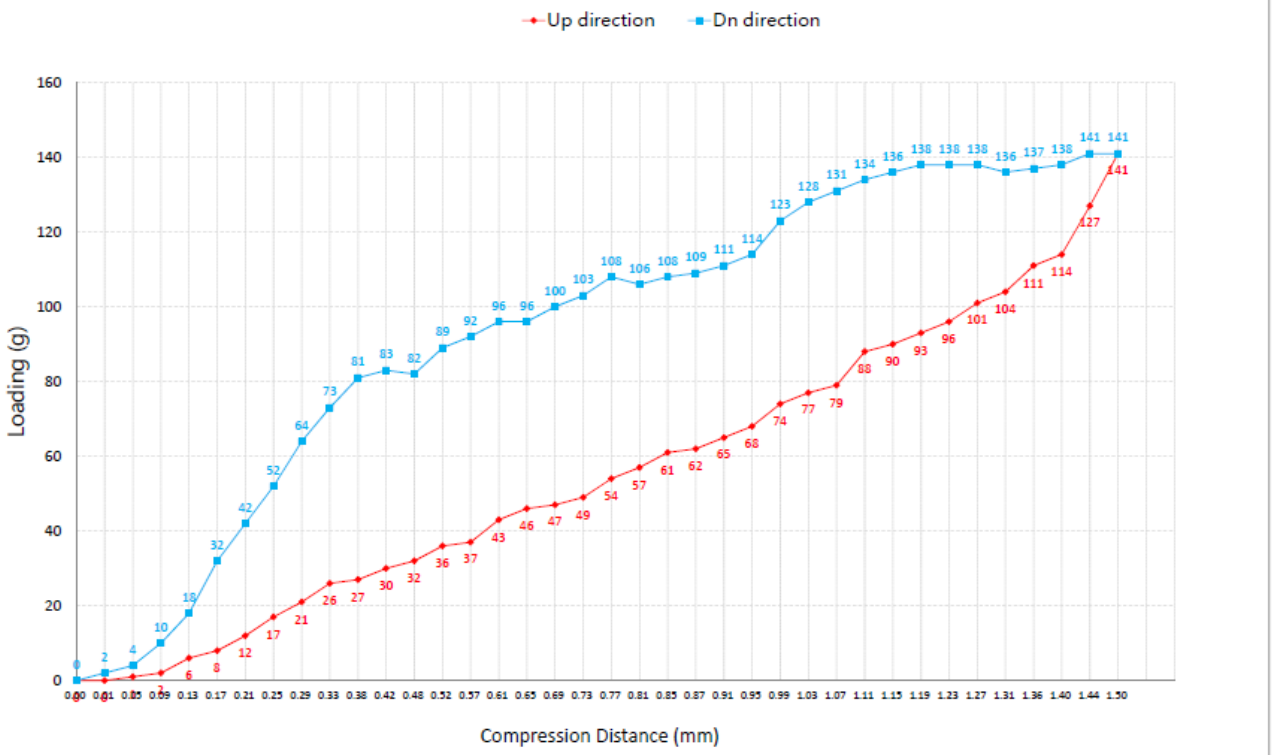
FORCE DEFLECTION DIAGRAM*



Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.01	2	0
0.05	4	1
0.09	10	2
0.13	18	6
0.17	32	8
0.21	42	12
0.25	52	17
0.29	64	21
0.33	73	26
0.38	81	27
0.42	83	30
0.48	82	32
0.52	89	36
0.57	92	37
0.61	96	43
0.65	96	46
0.69	100	47
0.73	103	49

Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.77	108	54
0.81	106	57
0.85	108	61
0.87	109	62
0.91	111	65
0.95	114	68
0.99	123	74
1.03	128	77
1.07	131	79
1.11	134	88
1.15	136	90
1.19	138	93
1.23	138	96
1.27	138	101
1.31	136	104
1.36	137	111
1.4	138	114
1.44	141	127
1.5	141	141

NOTE | * Only valid for gold-plated version

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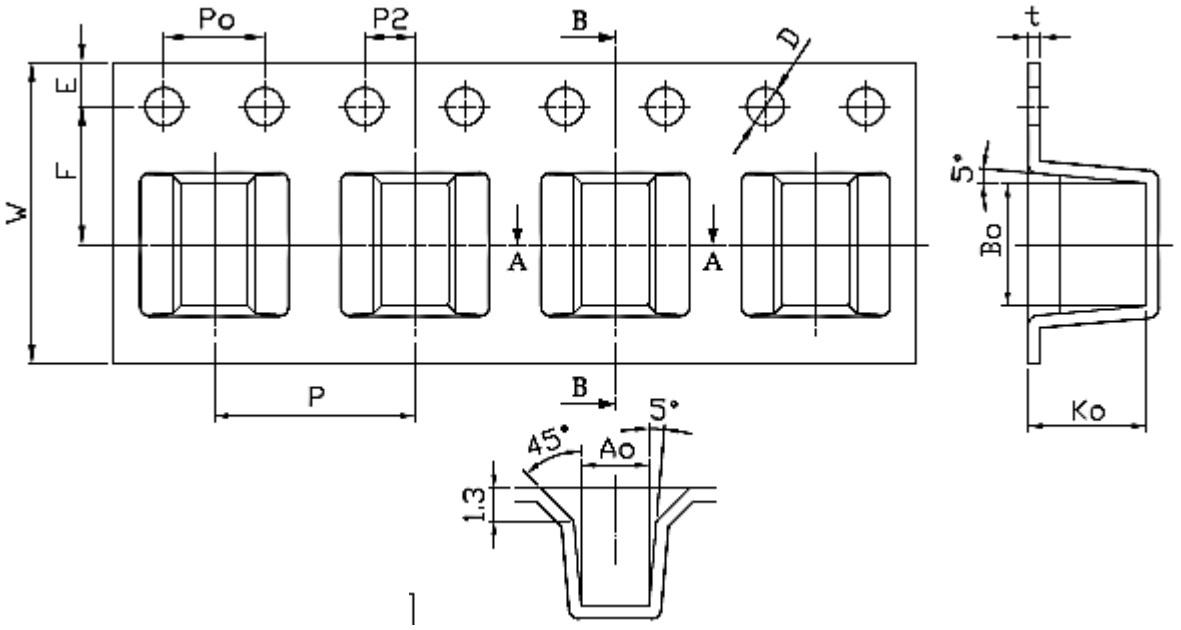
PACKING SPECIFICATION – TAPE AND REEL (mm)



	W	A_0	B_0	K_0	P	F	E	D	P_0	P_2	T
	12,00	2,70	4,90	4,70	8,00	5,50	1,75	Ø 1,50	4,00	2,00	0,50
Tolerance	± 0,30	± 0,10	± 0,10	± 0,10	± 0,10	± 0,10	± 0,10	+ 0,10 - 0,00	± 0,10	± 0,10	± 0,05

- 10 sprocket hole pitch cumulative tolerance ± 0,20 mm.
- Carrier camber not to exceed 1 mm in 250 mm.
- A0 and B0 measured on a plane 0,3 mm above the bottom of the pocket.
- K0 measured from a plane on the inside bottom of the pocket to the top surface of the carrier.
- All dimensions meet EIA-481-C requirements.
- Material: Clear non anti-static polystyrene.
- Component load per 13'' reel: 1.500 pcs.

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.