SMD CONTACT SPRINGS
FCB-14XX2535040B-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.

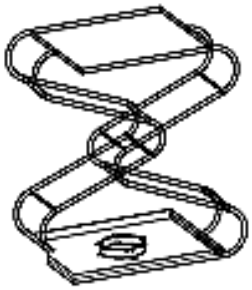
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

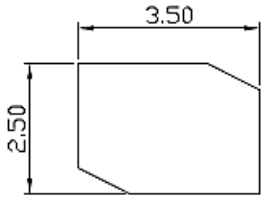
RoHS ✓ REACH ✓ REEL

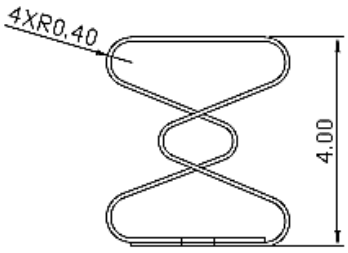
PRODUCT SPECIFICATIONS

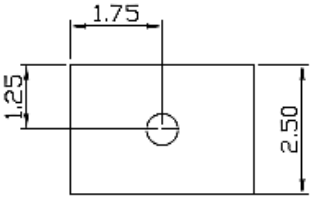
PROPERTY		VALUE / TOLERANCE
Thickness		0,08 mm
Width		2,50 mm ± 0,2
Length		3,50 mm ± 0,2
Height		4,00 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



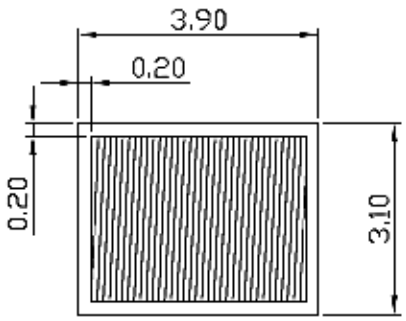
DIMENSIONS (mm)



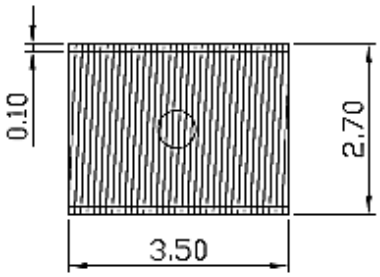




RECOMMENDED RESERVED AREA ON THE PCB (mm)



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-14XX2535040B-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

SMD CONTACT SPRINGS
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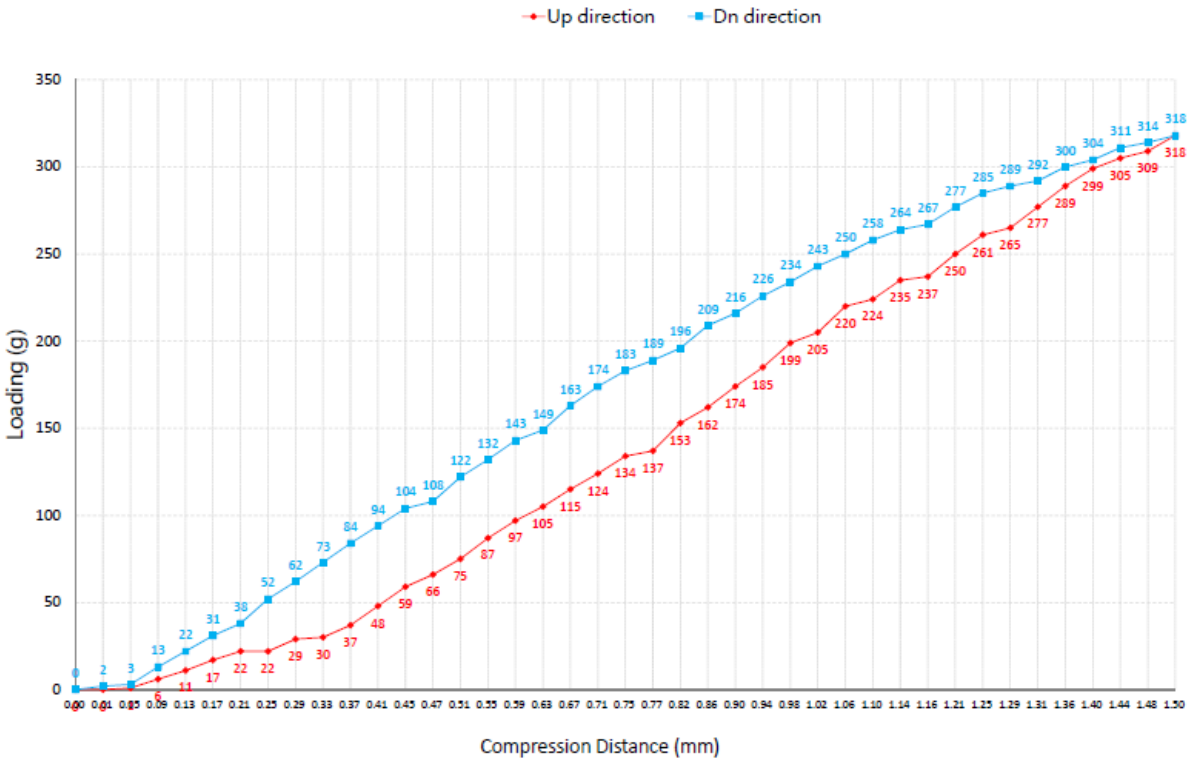
FORCE DEFLECTION DIAGRAM*

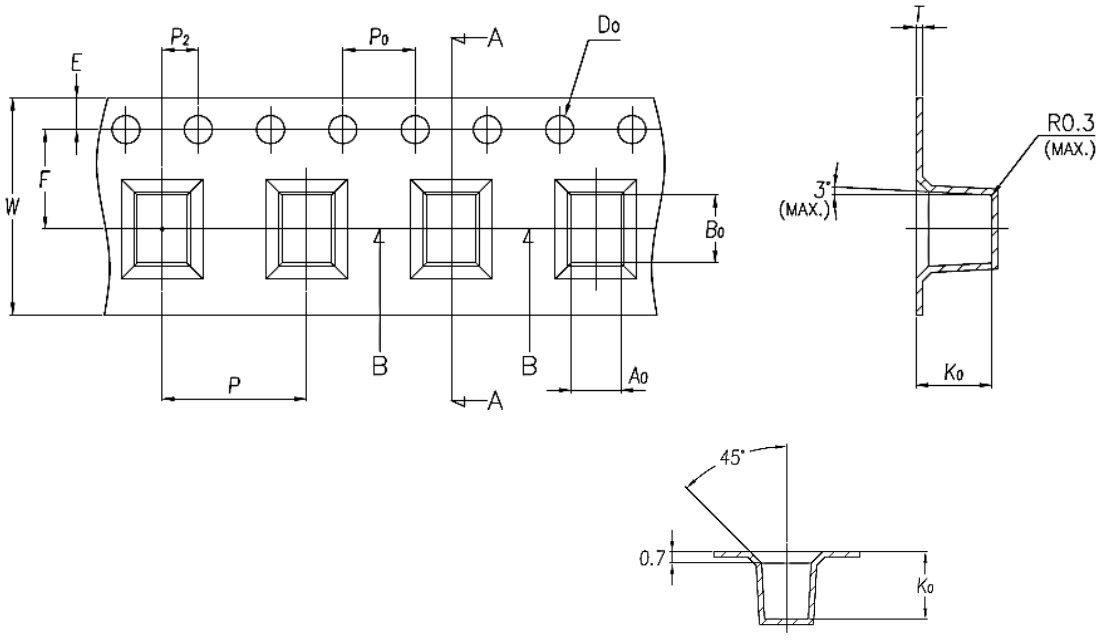


Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.01	2	0
0.05	3	1
0.09	13	6
0.13	22	11
0.17	31	17
0.21	38	22
0.25	52	22
0.29	62	29
0.33	73	30
0.37	84	37
0.41	94	48
0.45	104	59
0.47	108	66
0.51	122	75
0.55	132	87
0.59	143	97
0.63	149	105
0.67	163	115
0.71	174	124

Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.75	183	134
0.77	189	137
0.82	196	153
0.86	209	162
0.9	216	174
0.94	226	185
0.98	234	199
1.02	243	205
1.06	250	220
1.1	258	224
1.14	264	235
1.16	267	237
1.21	277	250
1.25	285	261
1.29	289	265
1.31	292	277
1.36	300	289
1.4	304	299
1.44	311	305
1.48	314	309
1.5	318	318

NOTE | * Only valid for gold-plated version

PACKING SPECIFICATION – TAPE AND REEL (mm)



	W	A_0	B_0	K_0	P	F	E	D	P_0	P_2	T
	12,00	2,75	3,75	4,20	8,00	5,50	1,75	Ø 1,50	4,00	2,00	0,35
Tolerance	± 0,30	± 0,10	± 0,10	± 0,10	± 0,10	± 0,05	± 0,10	+ 0,10 - 0,00	± 0,10	± 0,05	± 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-B requirements.
- Material: Clear non anti-static polystyrene.
- Component load per 13'' reel: 2.000 pcs (before 20 after 49 pcs).