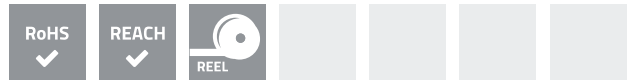


SMD contact springs are ideal for automatic assembly on printed circuit boards. They are soldered by the standard-reflow-soldering process.

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

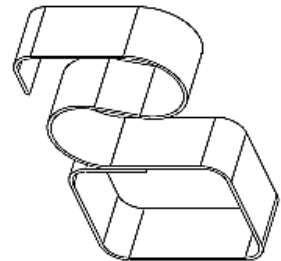
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

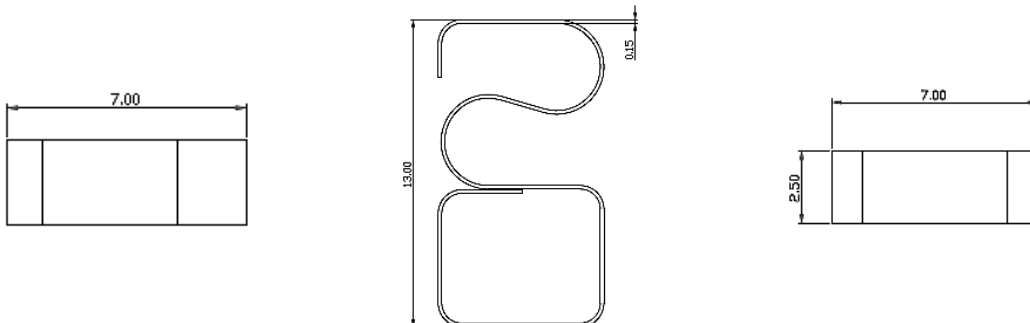


### PRODUCT SPECIFICATIONS

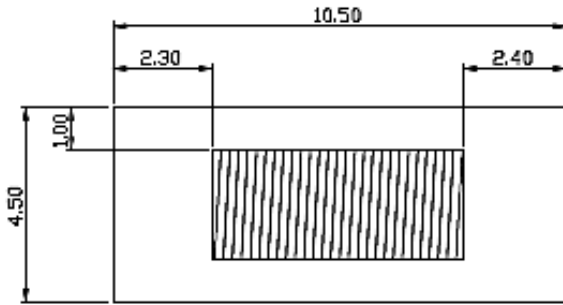
PROPERTY		VALUE / TOLERANCE
Thickness		0,15 mm
Width		2,50 mm ± 0,2
Length		7,00 mm ± 0,2
Height		13,00 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



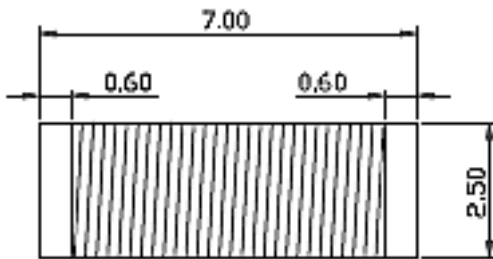
### DIMENSIONS (mm)



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



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

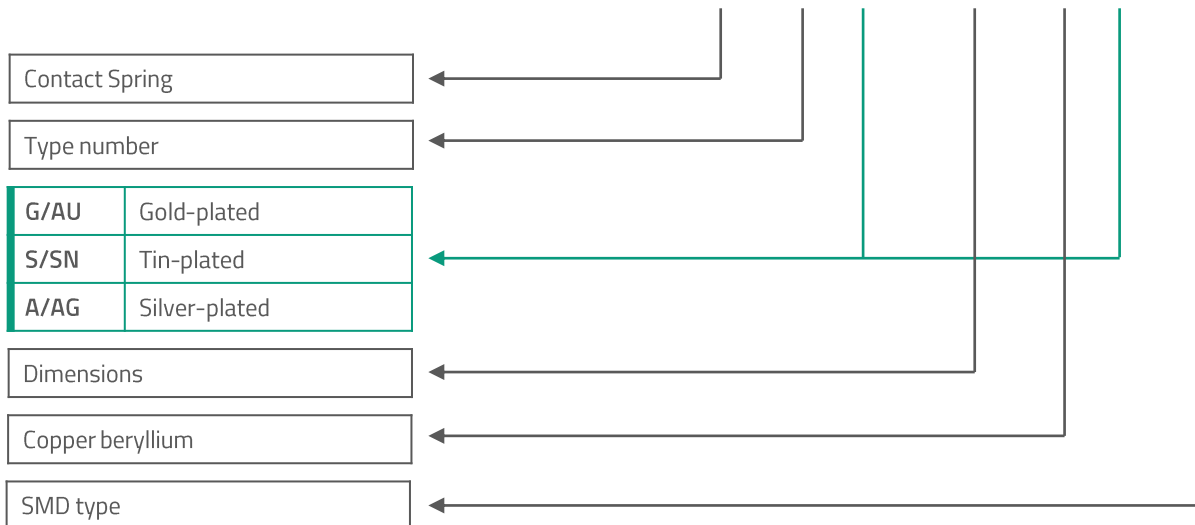


**DISCLAIMER**

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.

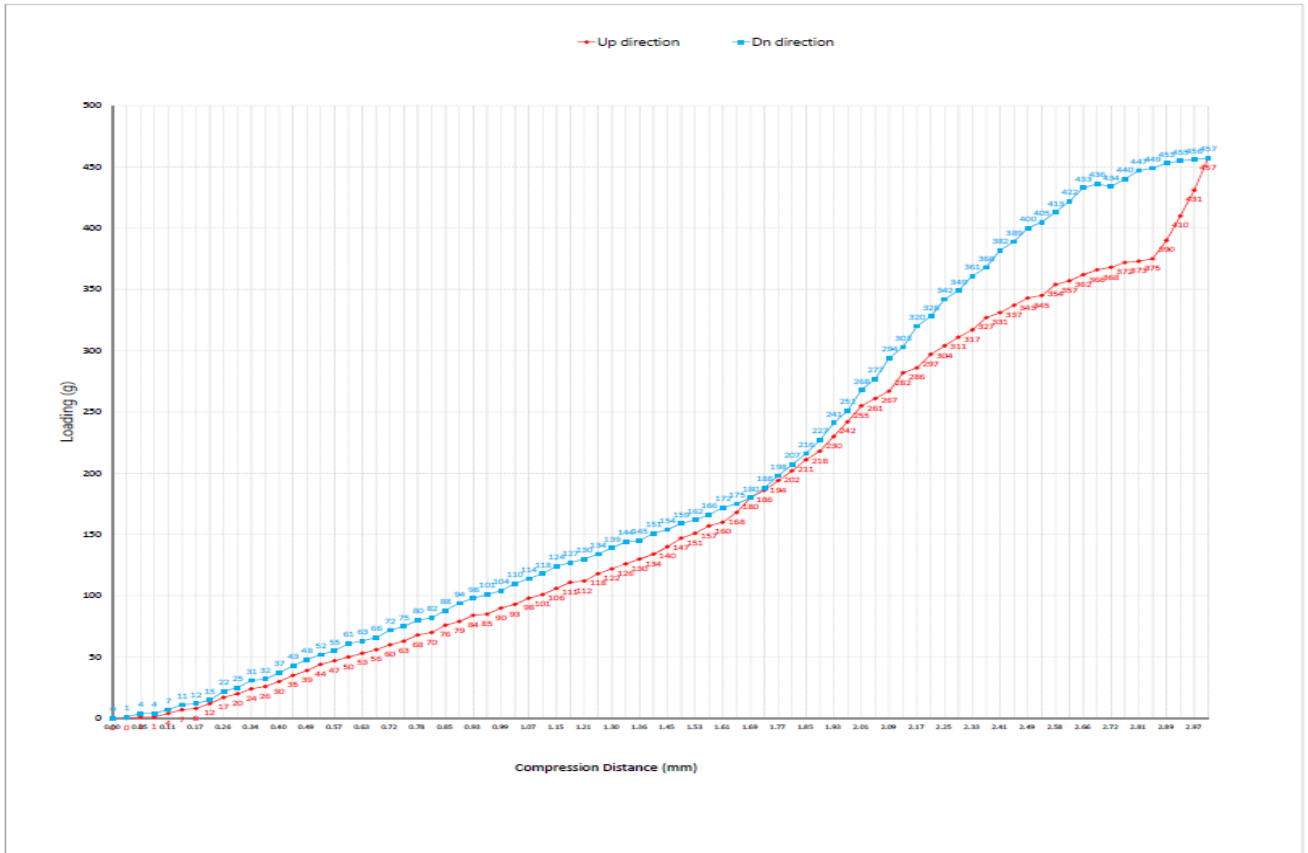
**BUILDING AN ITEM NUMBER**

**FCB-16SX2570130B-YY-SMD**



**Standard options**

### FORCE DEFLECTION DIAGRAM\*

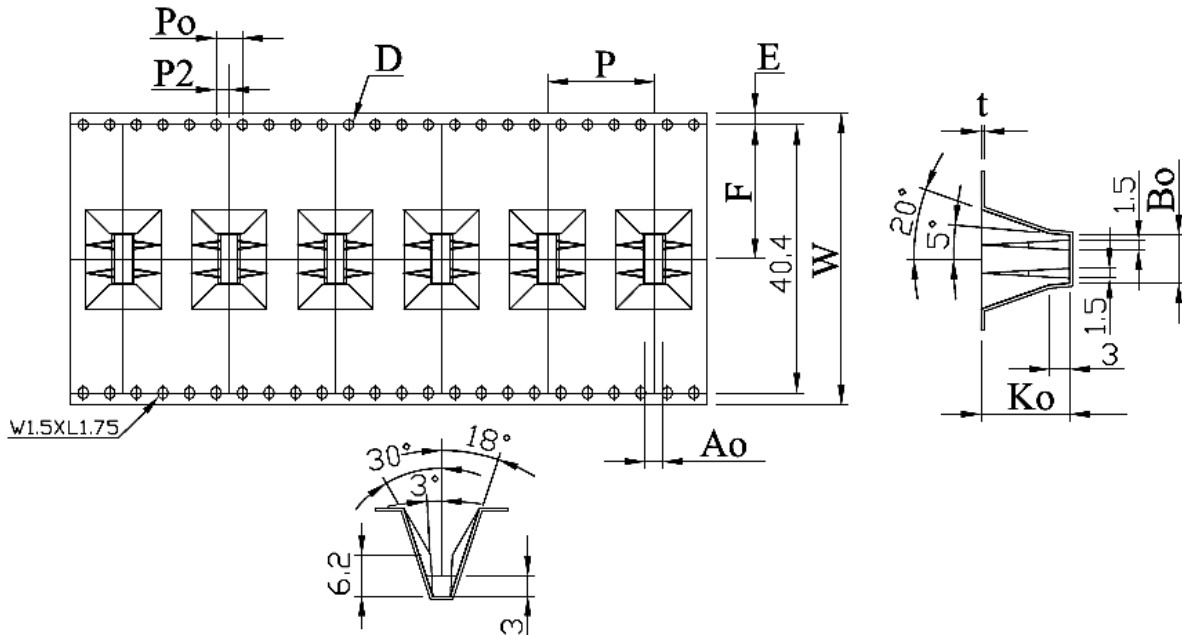


Total Compression Distance(mm)	3.00	
	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.01	1	0
0.02	2	1
0.04	4	1
0.07	4	1
0.11	7	4
0.15	11	7
0.17	12	8
0.22	15	12
0.26	22	17
0.3	25	20
0.34	31	24
0.36	32	26
0.4	37	30
0.45	43	35
0.49	48	39
0.53	52	44
0.57	55	47
0.61	61	50
0.63	63	53
0.67	66	56
0.72	72	60
0.74	75	63
0.78	80	68
0.8	82	70
0.85	88	76
0.89	94	79
0.93	98	84
0.95	101	85
0.99	104	90
1.03	110	93
1.07	114	98
1.11	118	101
1.15	124	106
1.19	127	113
1.21	130	112
1.26	134	118
1.3	139	122

Total Compression Distance(mm)	3.00	
	Loading force(g) Down direction	Loading force(g) UP direction
1.34	144	126
1.36	145	130
1.41	151	134
1.45	154	140
1.49	159	147
1.53	162	151
1.57	166	157
1.61	172	160
1.65	178	166
1.69	183	170
1.73	188	176
1.77	199	184
1.81	207	192
1.85	216	211
1.89	227	218
1.93	241	230
1.97	251	242
2.01	268	255
2.05	277	261
2.09	298	267
2.13	303	282
2.17	320	286
2.21	328	297
2.25	342	304
2.29	349	311
2.33	361	317
2.37	368	327
2.41	382	331
2.45	399	337
2.49	409	343
2.53	405	345
2.58	413	354
2.62	422	357
2.66	433	362
2.7	436	366
2.72	438	368
2.77	440	372
2.81	447	373
2.85	449	375
2.89	453	380
2.93	455	410
2.97	456	431
3	457	437

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

## PACKING SPECIFICATION – TAPE AND REEL (mm)



	W	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	P	F	E	D	P <sub>0</sub>	P <sub>2</sub>	T
	44,00	2,65	7,25	13,30	16,00	20,20	1,75	∅ 1,50	4,00	2,00	0,50
Tolerance	± 0,30	+ 0,00 - 0,10	+ 0,00 - 0,25	± 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.
- A<sub>0</sub> and B<sub>0</sub> measured on a plane 0,3 mm above the bottom of the pocket.
- K<sub>0</sub> 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: 200 pcs (before 10 after 20 pcs).