

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.

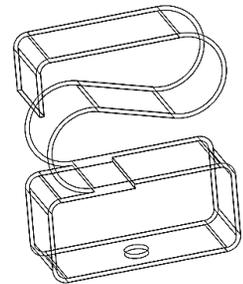
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

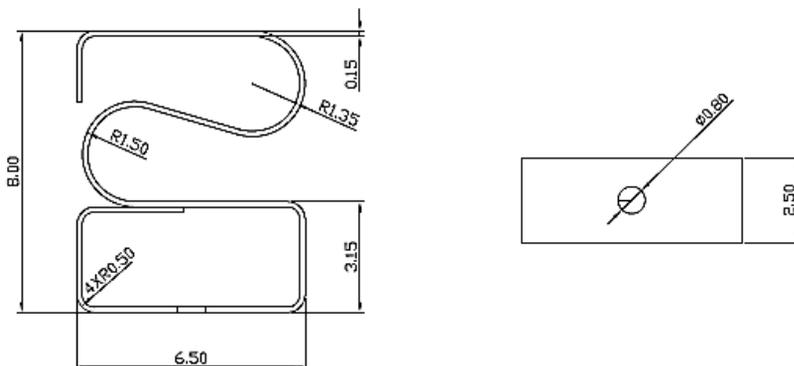


### PRODUCT SPECIFICATIONS

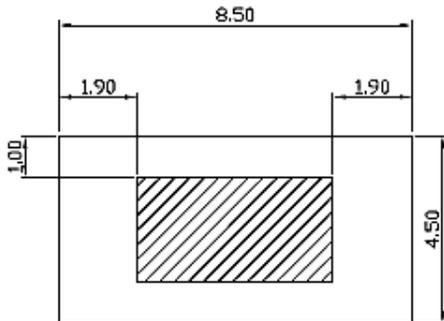
PROPERTY		VALUE / TOLERANCE
Thickness		0,15 mm
Width		2,50 mm ± 0,2
Length		6,50 mm ± 0,2
Height		8,00 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



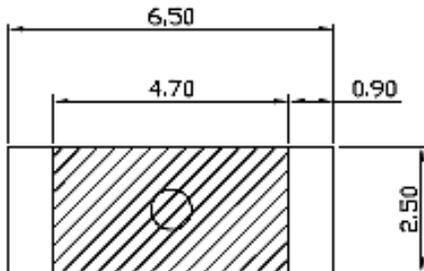
### DIMENSIONS (mm)



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



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

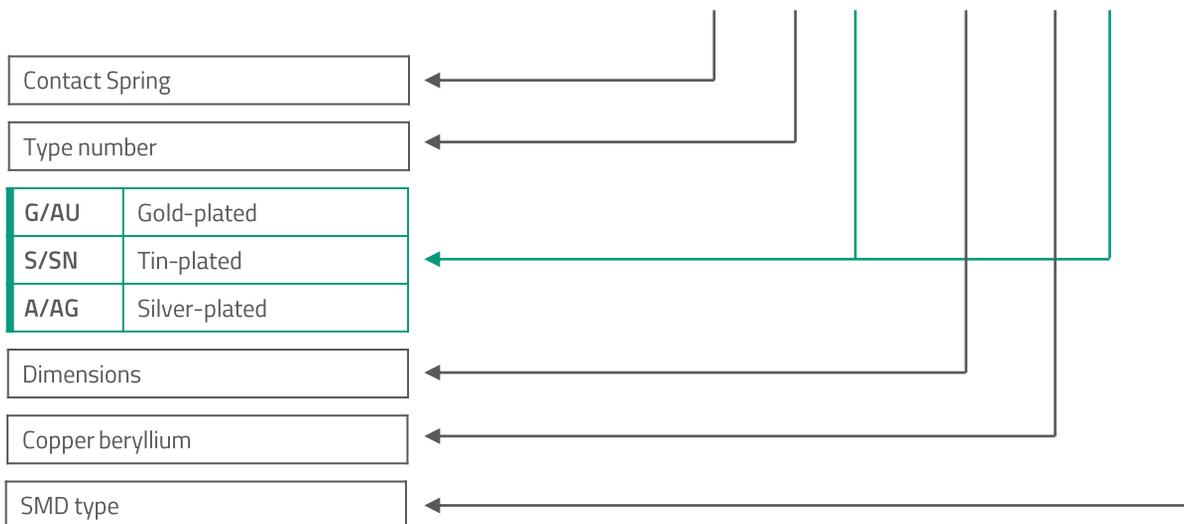


**DISCLAIMER**

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.

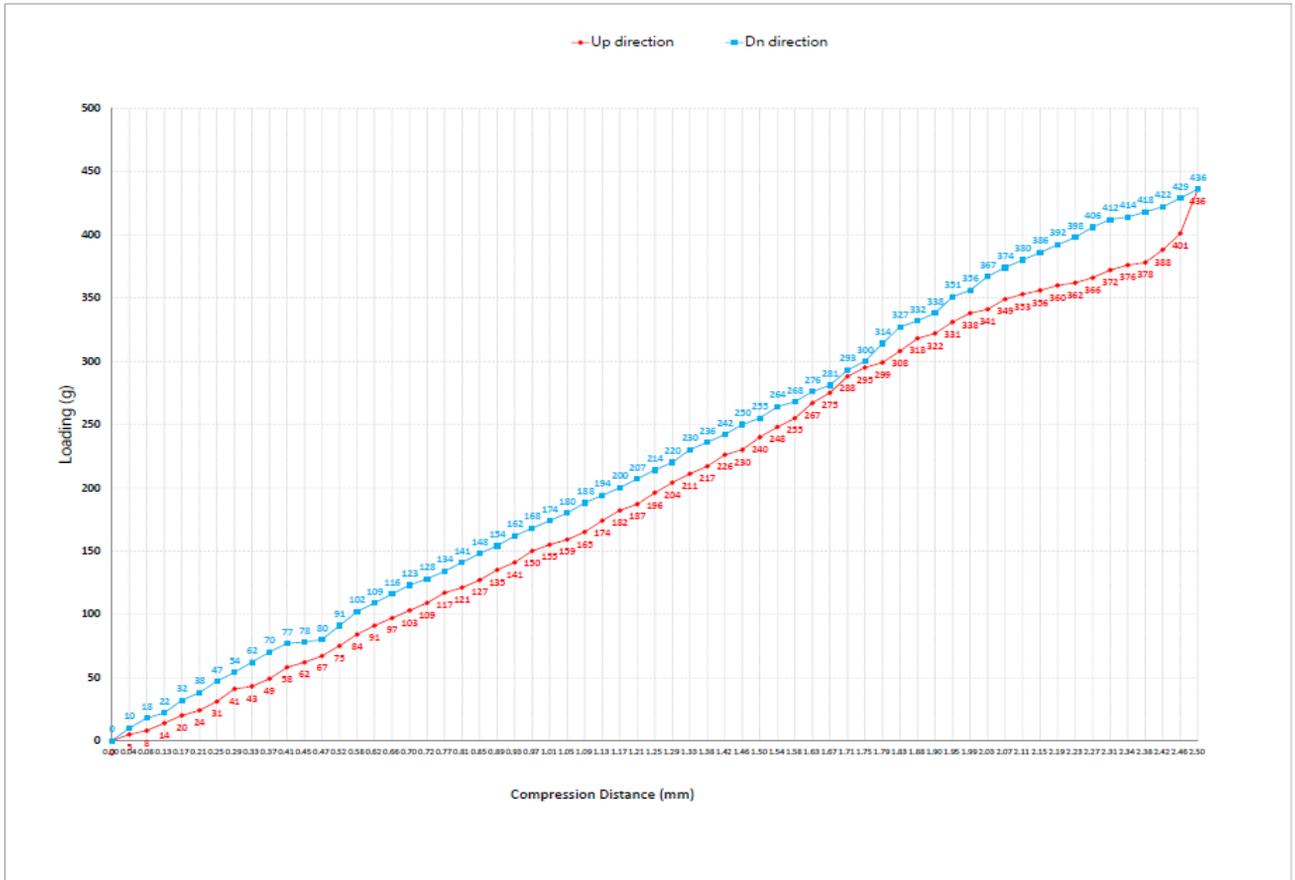
**BUILDING AN ITEM NUMBER**

**FCB- 16SX2565080B-YY-SMD**



**Standard options**

### FORCE DEFLECTION DIAGRAM\*

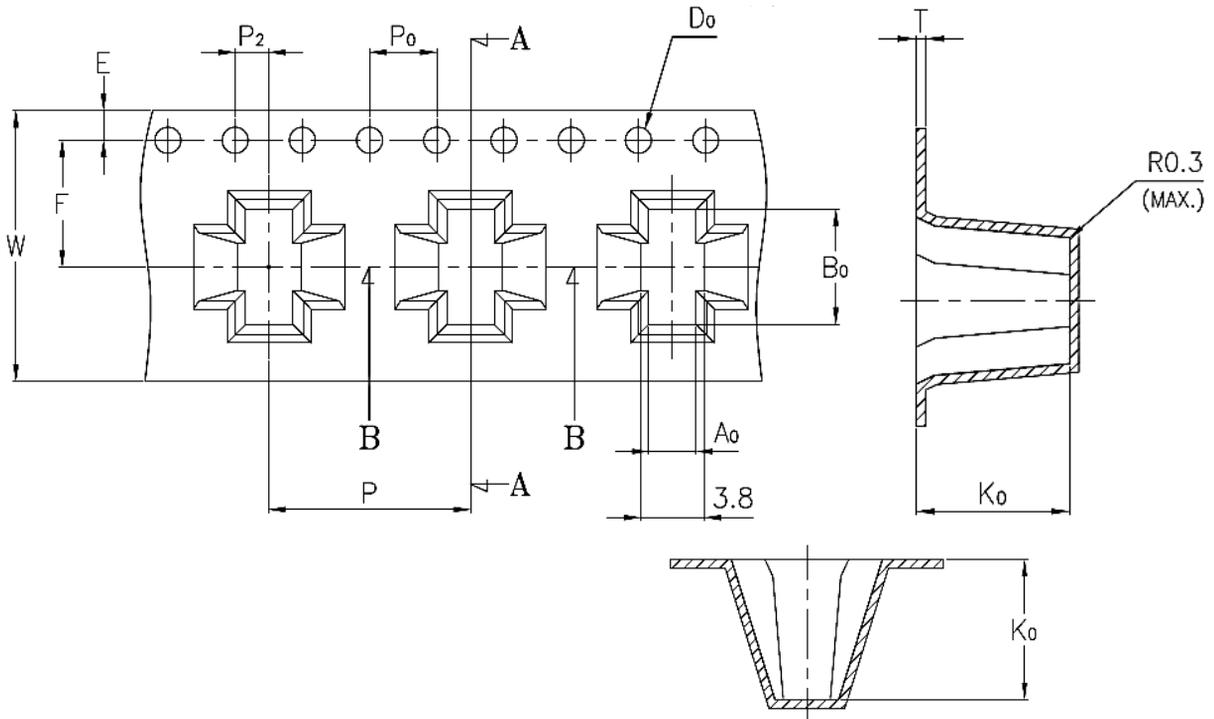


Total Compression Distance(mm)	2.50	
	Loading force(a) Down direction	Loading force(a) UP direction
0.00	0	0
0.04	10	5
0.08	18	8
0.13	22	14
0.17	32	20
0.21	38	24
0.25	47	31
0.29	54	41
0.33	62	43
0.37	70	49
0.41	77	58
0.45	78	62
0.47	80	67
0.52	91	75
0.58	102	84
0.62	109	91
0.66	116	97
0.70	123	103
0.72	128	109
0.77	134	117
0.81	141	121
0.85	148	127
0.89	154	135
0.92	162	141
0.97	168	150
1.01	174	155
1.05	180	159
1.09	188	165
1.13	194	174

Total Compression Distance(mm)	2.50	
	Loading force(a) Down direction	Loading force(a) UP direction
1.17	200	182
1.21	207	187
1.25	214	196
1.29	220	204
1.33	230	211
1.38	236	217
1.42	242	226
1.46	250	230
1.50	255	240
1.54	264	248
1.58	268	255
1.63	276	267
1.67	281	275
1.71	293	288
1.75	300	295
1.79	314	297
1.83	327	308
1.88	332	318
1.90	338	322
1.95	351	331
1.99	356	338
2.03	367	341
2.07	374	349
2.11	380	353
2.15	386	354
2.19	392	360
2.23	398	362
2.27	406	366
2.31	412	372
2.34	418	376
2.38	418	378
2.42	422	388
2.46	429	401
2.50	436	436

**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
	16,00	2,80	6,80	8,30	12,00	7,50	1,75	∅ 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.
- 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: 600 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.