SMD CONTACT SPRINGS
FCB-16SX2570120B-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.

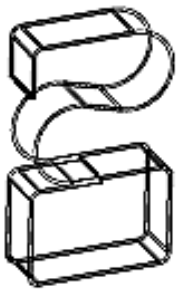
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

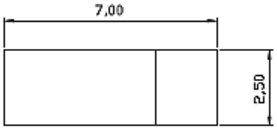
RoHS ✓ REACH ✓ REEL

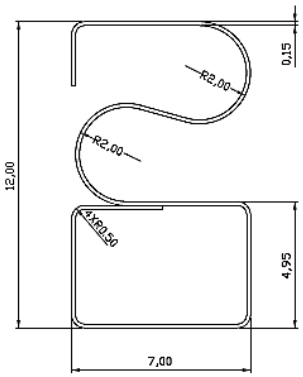
PRODUCT SPECIFICATIONS

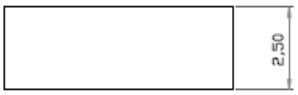
PROPERTY		VALUE / TOLERANCE
Thickness		0,15 mm
Width		2,50 mm ± 0,2
Length		7,00 mm ± 0,2
Height		12,00 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



DIMENSIONS (mm)







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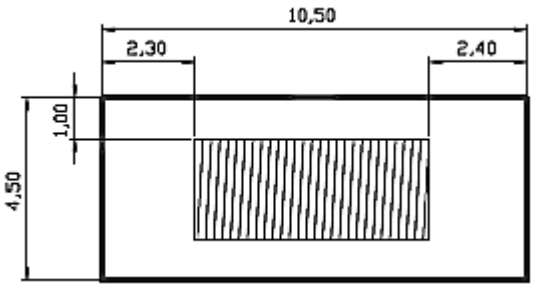
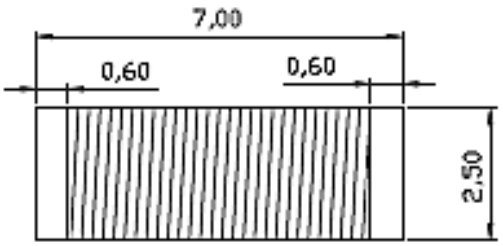
RECOMMENDED RESERVED AREA ON THE PCB (mm)



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-16SX2570120B-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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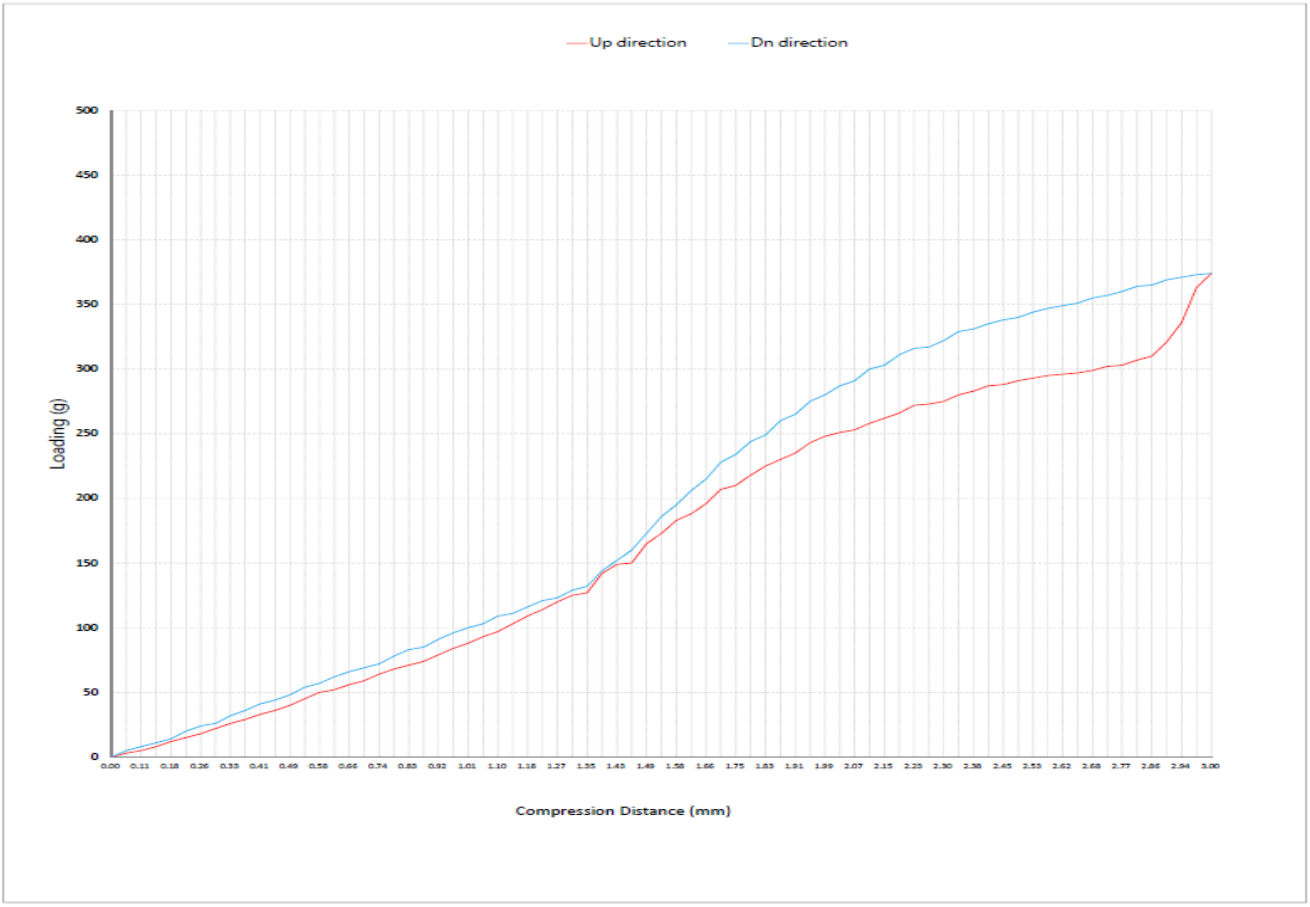
FORCE DEFLECTION DIAGRAM*



Total Compression Distance(mm)	3.00	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.07	5	3
0.11	8	5
0.14	11	8
0.18	14	12
0.22	20	15
0.26	24	18
0.29	26	22
0.33	32	26
0.37	36	29
0.41	41	33
0.45	44	36
0.49	48	40
0.54	54	45
0.58	57	50
0.62	62	52
0.66	66	56
0.7	69	59
0.74	73	64
0.79	78	68
0.83	83	71
0.87	85	74
0.92	91	79
0.97	96	84
1.01	100	88
1.05	103	93
1.1	109	97
1.14	111	103
1.18	116	109
1.23	121	114
1.27	123	120
1.31	129	125
1.35	132	127
1.39	144	142
1.43	152	149
1.45	160	150
1.49	173	165

Total Compression Distance(mm)	3.00	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
1.54	186	173
1.58	195	183
1.62	206	186
1.66	215	196
1.71	228	207
1.75	234	210
1.79	244	218
1.83	249	225
1.87	260	230
1.91	265	235
1.95	275	243
1.99	280	248
2.03	287	251
2.07	291	253
2.11	300	258
2.15	303	262
2.19	311	266
2.23	316	272
2.25	317	273
2.3	322	275
2.34	329	280
2.38	331	283
2.42	335	287
2.45	338	288
2.49	340	291
2.53	344	293
2.57	347	295
2.62	349	296
2.64	351	297
2.68	355	299
2.73	357	302
2.77	360	303
2.81	364	307
2.86	365	310
2.9	369	321
2.94	371	336
2.98	373	363
3	374	374

NOTE | * Only valid for gold-plated version

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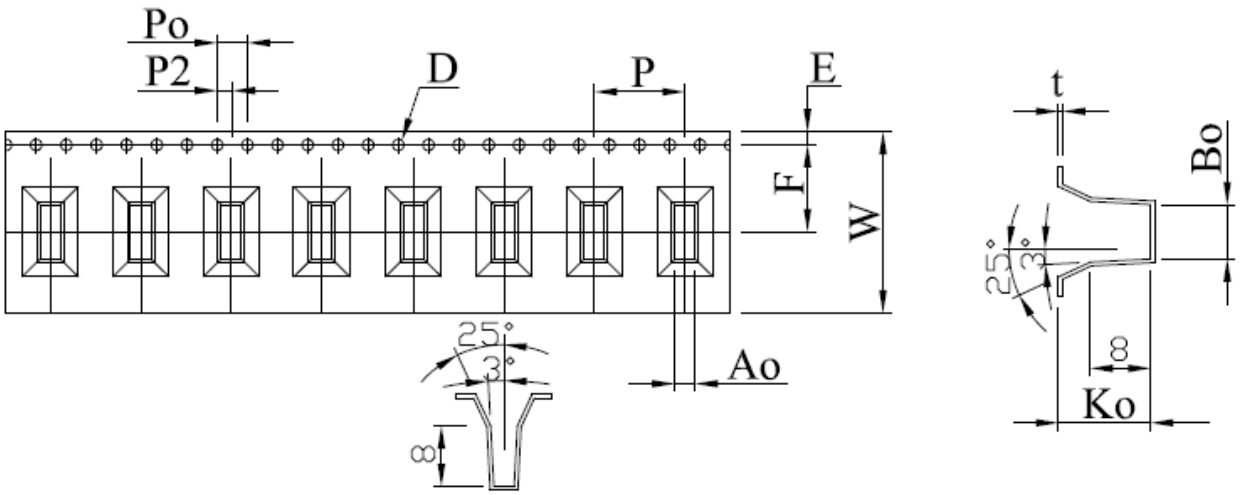
PACKING SPECIFICATION – TAPE AND REEL (mm)



	W	A_0	B_0	K_0	P	F	E	D	P_0	P_2	T
	24,00	2,70	7,20	12,20	12,00	11,50	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-B requirements.
- Material: Clear non anti-static polystyrene.
- Component load per 13'' reel: 400 pcs.