SMT CONTACT SPRINGS
OTG2548070

Spring finger contacts are used for grounding and dynamic connections on electronic assemblies.

These spring finger contacts (SMT) are designed to withstand tens of thousands of compression cycles. They are widely used for connections on automotive projects for example. These spring finger contacts are delivered in reel for automatic SMT assembly.

We provide compression rates and associated forces for each spring finger contact on request. Recommended compression is 20% to 40% of the overall contact height.

Spring finger contacts (SMT) can be standard (see our catalog below) or tailor-made.
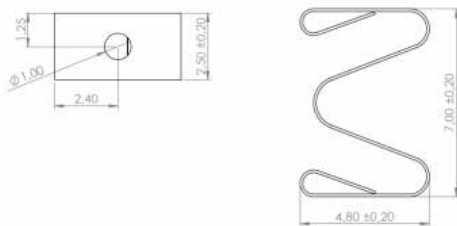
PRODUCT SPECIFICATIONS

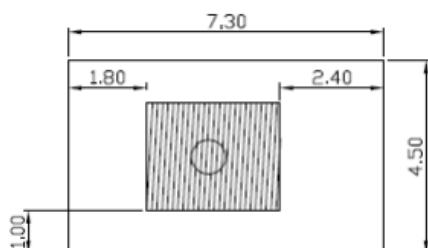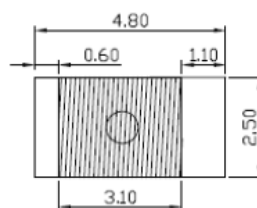| PROPERTY		VALUE TOLERANCE
Thickness		0,010 mm
Width		2,50 mm $\pm$ 0,2
Length		4,80 mm $\pm$ 0,2
Height		7,00 mm $\pm$ 0,2
Basic material		Copper berylluim (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm - 2µm 0.025µm - 0.075µm
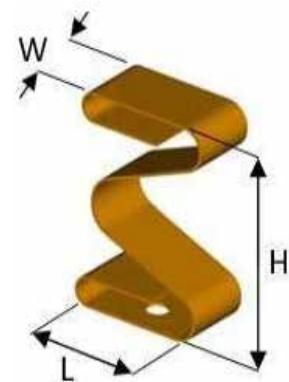
DIMENSIONS (mm)

RECOMMENDED RESERVED AREA & PAD FOR THE PCB (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 COMPELMA at the time of printing. Actual land pattern can be significantly different due to various materials and processes used in PCB assembly. COMPELMA makes no representation or warranty of performance based on the recommended land pattern.

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COMPELMA

BUILDING AN ITEM NUMBER

OTG   25   48   070
 ❶   ❷   ❸   ❹

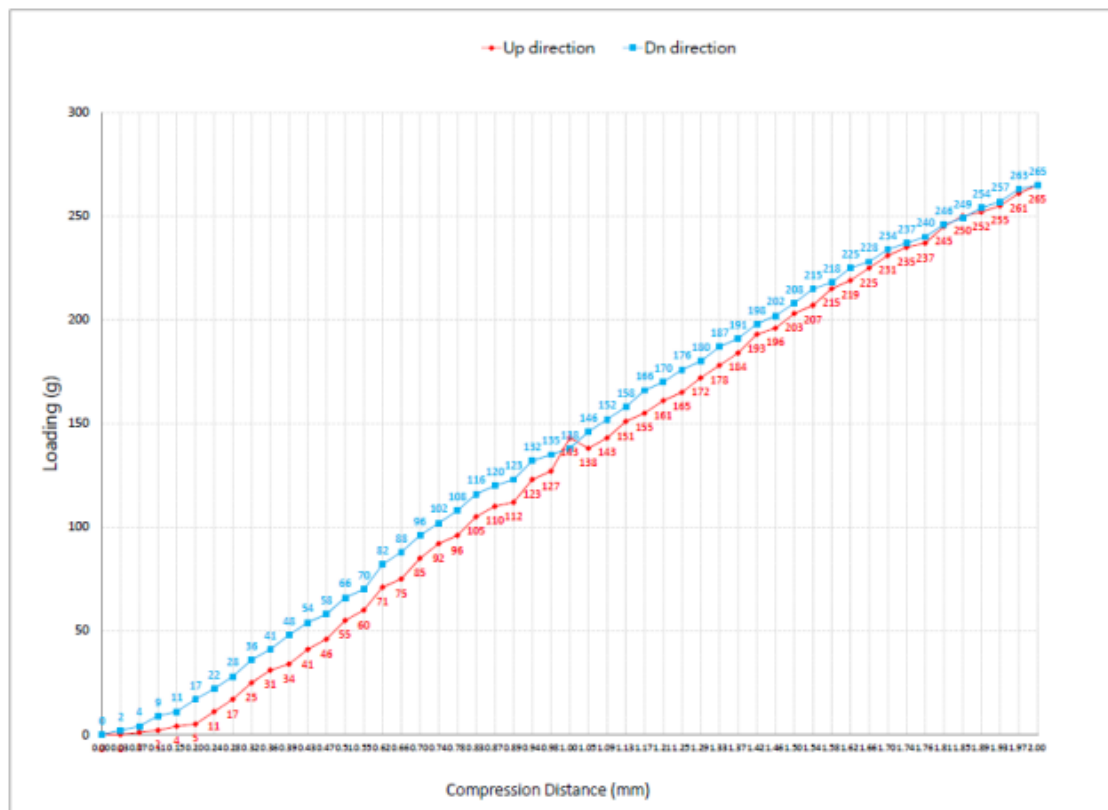❶ Contact Spring   ❸ Length (ex : 2,5mm = 15)
❷ Width (ex : 1,5mm = 15)   ❹ Height (ex : 85mm = 085)

Standard material is CuBe with gold plating.
For stainless material instead of CuBe material : add -S at the end of the reference.
For tin plating instead of gold plating : add -T at the end of the reference.

FORCE DEFLECTION DIAGRAM*

Total Compression Distance (mm)	2.00	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.03	2	0
0.07	4	1
0.11	9	2
0.15	11	4
0.2	17	5
0.24	22	11
0.28	28	17
0.32	36	25
0.36	41	31
0.39	48	34
0.43	54	41
0.47	58	46
0.51	66	55
0.55	70	60
0.62	82	71
0.66	88	75
0.7	96	85
0.74	102	92
0.78	108	96
0.83	116	105
0.87	120	110
0.89	123	112
0.94	132	123
0.98	135	127
1	136	143

Total Compression Distance (mm)	2.00	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
1.05	146	135
1.09	152	143
1.13	158	151
1.17	166	155
1.21	170	161
1.25	176	165
1.29	180	172
1.33	187	178
1.37	191	184
1.42	198	193
1.46	202	196
1.5	206	203
1.54	215	207
1.58	218	215
1.62	225	219
1.66	228	225
1.7	234	231
1.74	237	235
1.76	240	237
1.81	246	245
1.85	249	250
1.89	254	252
1.93	257	255
1.97	263	261
2	265	265

NOTE

*Only valid for gold plated version