

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.

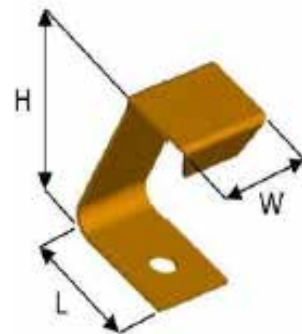
We provide compression rates and associated forces for each spring finger contact on request. Recommended compression is 20% to 40% of the overall contact height.

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

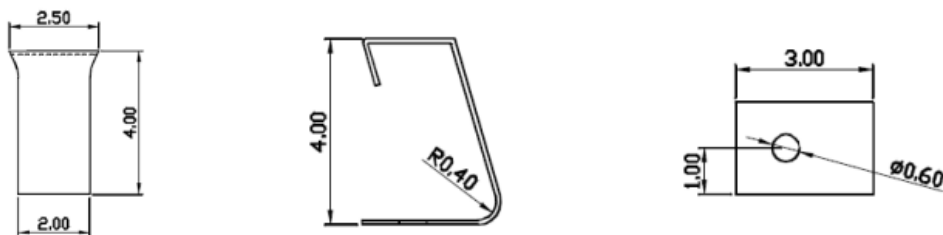


PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		2,00 mm \pm 0,2
Length		3,00 mm \pm 0,2
Height		4,00 mm \pm 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1 μ m - 2 μ m 0.025 μ m - 0.075 μ m

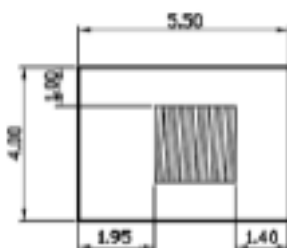


DIMENSIONS (mm)

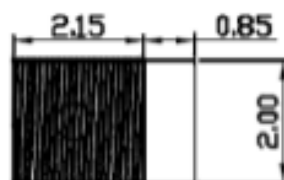


RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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.

BUILDING AN ITEM NUMBER

OTG 20 30 040

① ② ③ ④

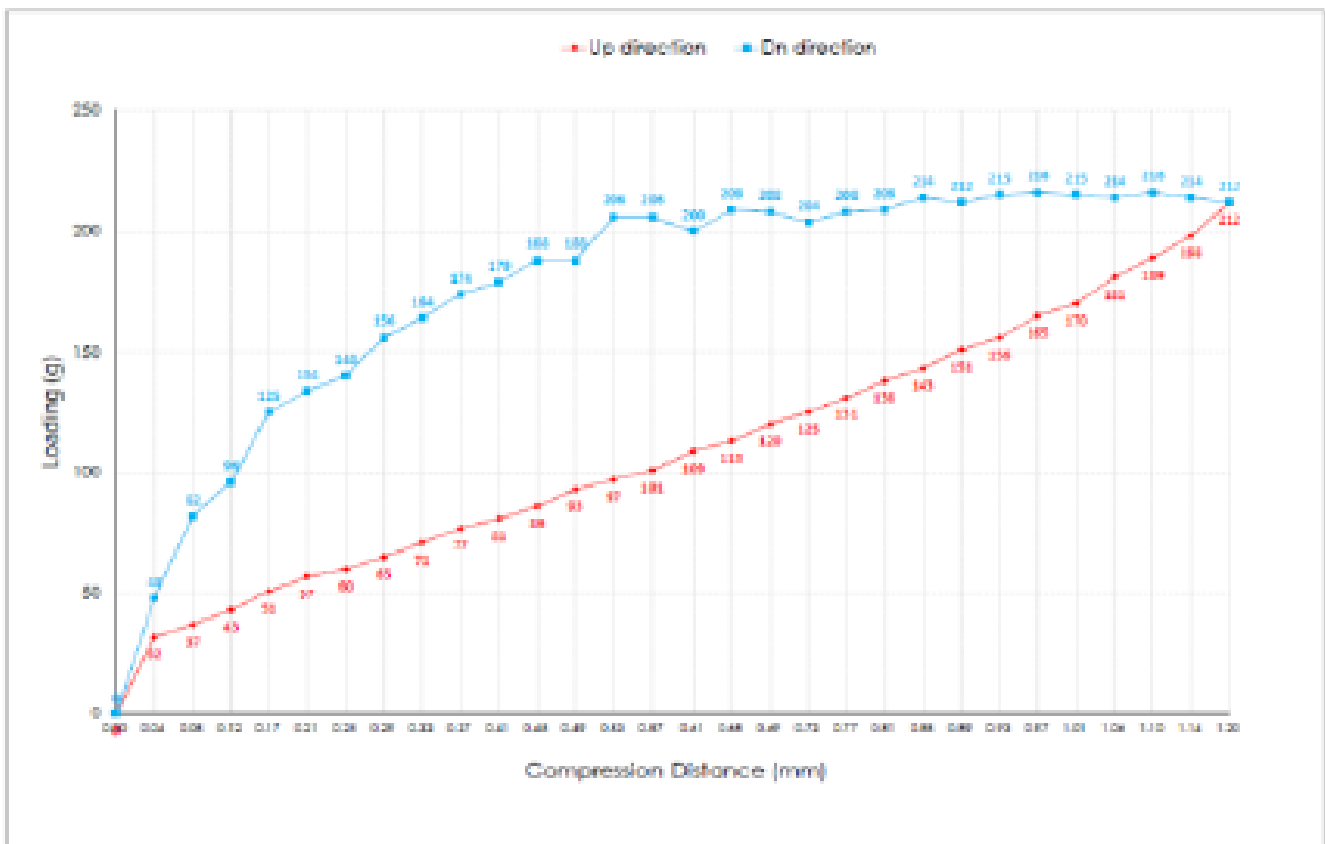
- ① Contact Spring ③ Length (ex : 2,5mm = 15)
② Width (ex : 1,5mm = 15) ④ Height (ex : 85mm = 085)

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)		1.50mm	
Displacement (mm)		Loading force (g) Down direction	Loading force (g) UP direction
0.00		0	0
0.04		48	32
0.08		82	37
0.12		98	45
0.17		125	58
0.21		135	67
0.25		145	80
0.29		155	85
0.33		165	88
0.37		175	93
0.41		179	97
0.45		185	101
0.49		185	109
0.53		205	110
0.57		205	120
0.61		200	125
0.65		208	131
0.69		205	138
0.73		205	143
0.77		205	151
0.81		205	158
0.85		215	165
0.89		212	170
0.93		215	182
0.97		218	188
1.01		215	195
1.05		215	198
1.09		215	205
1.13		215	208
1.17		215	212
1.20		212	212

Total Compression Distance (mm)		1.50mm	
Displacement (mm)		Loading force (g) Down direction	Loading force (g) UP direction
0.41		200	109
0.45		205	113
0.49		208	120
0.53		205	125
0.57		205	131
0.61		205	138
0.65		215	143
0.69		212	151
0.73		215	158
0.77		215	165
0.81		215	170
0.85		215	182
0.89		212	188
0.93		215	195
0.97		218	198
1.01		215	205
1.05		215	208
1.09		215	212
1.13		215	215
1.17		215	215
1.20		212	212

NOTE

*Only valid for gold plated version