

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.

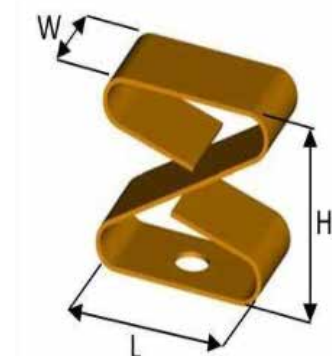
We provide compression rates and associated forces for each spring finger contact on request. Recommended compression is 20% to 40% of the overall contact height.

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

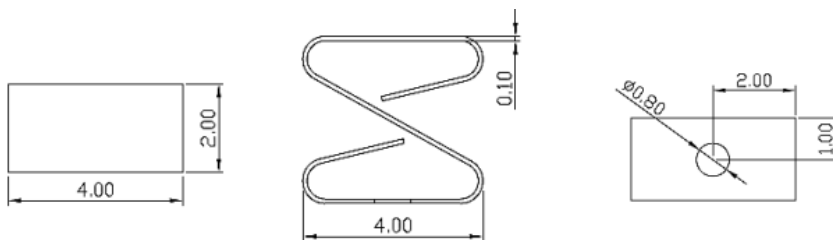


PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,08 mm
Width		2,00 mm $\pm$ 0,2
Length		4,00 mm $\pm$ 0,2
Height		3,70 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

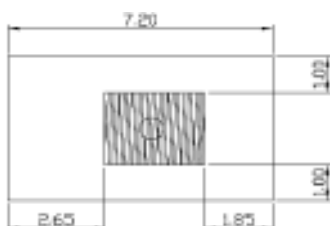


DIMENSIONS (mm)

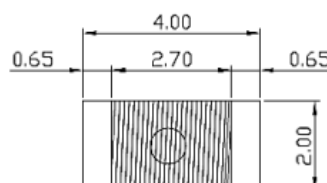


RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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 40 037

①

②

③

④

① Contact Spring

② Width (ex : 1,5mm = 15)

③ Length (ex : 2,5mm = 15)

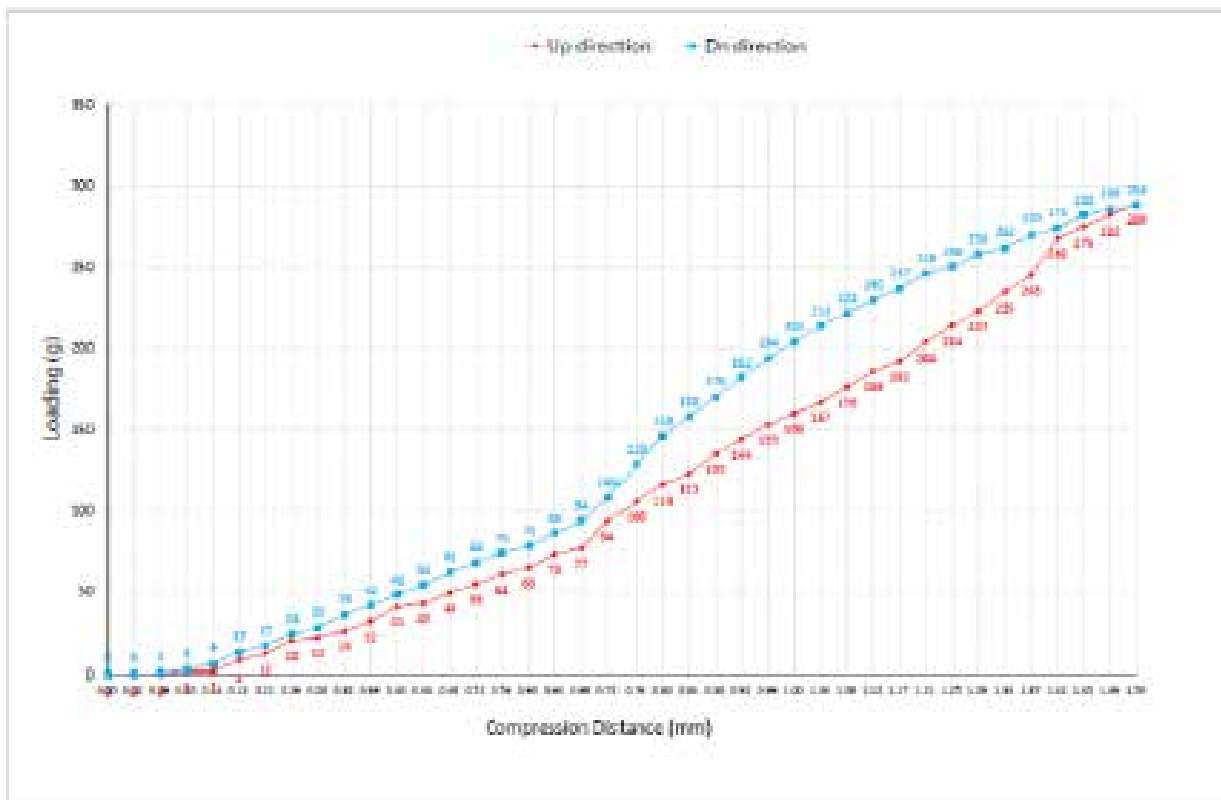
④ Height (ex : 85mm = 085)

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*



Compression Distance (mm)	1.44	
displacement (mm)	Loading force(g)	Loading force(g)
	Down direction	Up direction
0.00	0	0
0.02	5	0
0.04	1	0
0.06	3	2
0.08	6	4
0.10	10	8
0.12	17	13
0.14	24	20
0.16	28	24
0.18	34	34
0.20	42	40
0.22	45	47
0.24	54	53
0.26	58	61
0.28	74	69
0.30	79	77
0.32	84	87
0.34	94	97
0.36	109	104
0.38	124	124

Compression Distance (mm)	1.50	
displacement (mm)	Loading force(g)	Loading force(g)
	Down direction	Up direction
0.00	0	0
0.02	144	118
0.04	156	133
0.06	170	144
0.08	182	154
0.10	194	163
0.12	204	174
0.14	214	187
0.16	222	196
0.18	230	204
0.20	237	212
0.22	244	224
0.24	250	234
0.26	256	247
0.28	264	257
0.30	270	267
0.32	276	274
0.34	282	282
0.36	288	292

NOTE

*Only valid for gold plated version