

**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.

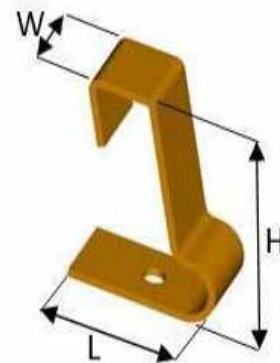
We provide compression rates and associated forces for each spring finger contact on request. Recommended compression is 20% to 40% of the overall contact height.

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

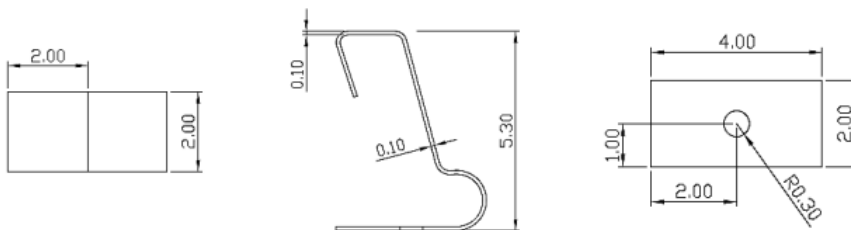


## PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		2,00 mm $\pm$ 0,2
Length		4,00 mm $\pm$ 0,2
Height		5,30 mm $\pm$ 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1 $\mu$ m - 2 $\mu$ m 0.025 $\mu$ m - 0.075 $\mu$ m

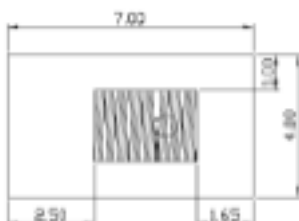


## DIMENSIONS (mm)

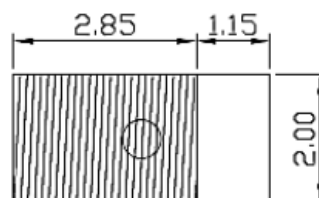


## RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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 40 053

1

2

3

4

1 Contact Spring

2 Width (ex : 1,5mm = 15)

3 Length (ex : 2,5mm = 15)

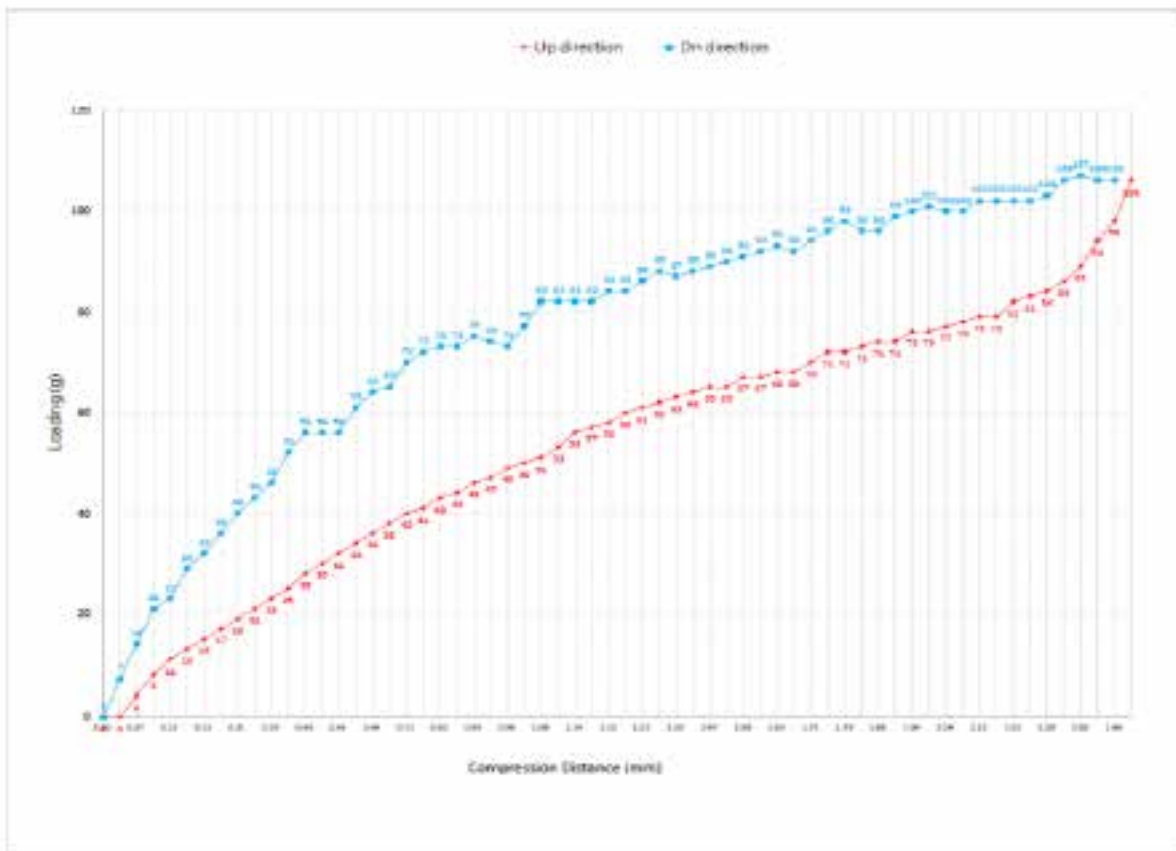
4 Height (ex : 85mm = 085)

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\*



Total Compression Displacement	0.05	
Displacement (mm)	Loading Force(gf) Down direction	Loading Force(gf) Up direction
0.00	0	0
0.01	9	8
0.02	16	14
0.03	23	20
0.04	29	26
0.05	36	33
0.06	42	39
0.07	48	45
0.08	54	51
0.09	60	57
0.10	66	63
0.11	72	69
0.12	78	75
0.13	84	81
0.14	90	87
0.15	96	93
0.16	102	99
0.17	108	105
0.18	114	111
0.19	120	117
0.20	126	123
0.21	132	129
0.22	138	135
0.23	144	141
0.24	150	147
0.25	156	153
0.26	162	159
0.27	168	165
0.28	174	171
0.29	180	177
0.30	186	183
0.31	192	189
0.32	198	195
0.33	204	201
0.34	210	207
0.35	216	213
0.36	222	219
0.37	228	225
0.38	234	231
0.39	240	237
0.40	246	243

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NOTE

\*Only valid for gold plated version