

**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.

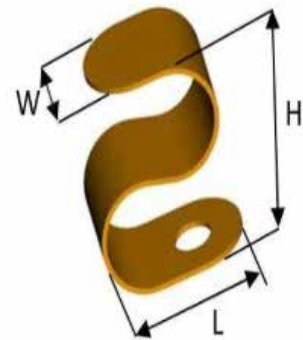
We provide compression rates and associated forces for each spring finger contact on request. Recommended compression is 20% to 40% of the overall contact height.

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		3,60 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

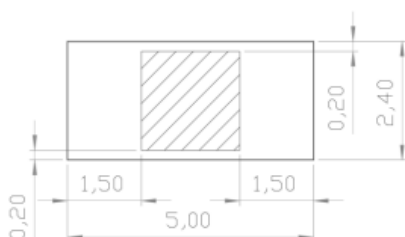


## DIMENSIONS (mm)



## 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 30 036

①      ②      ③      ④

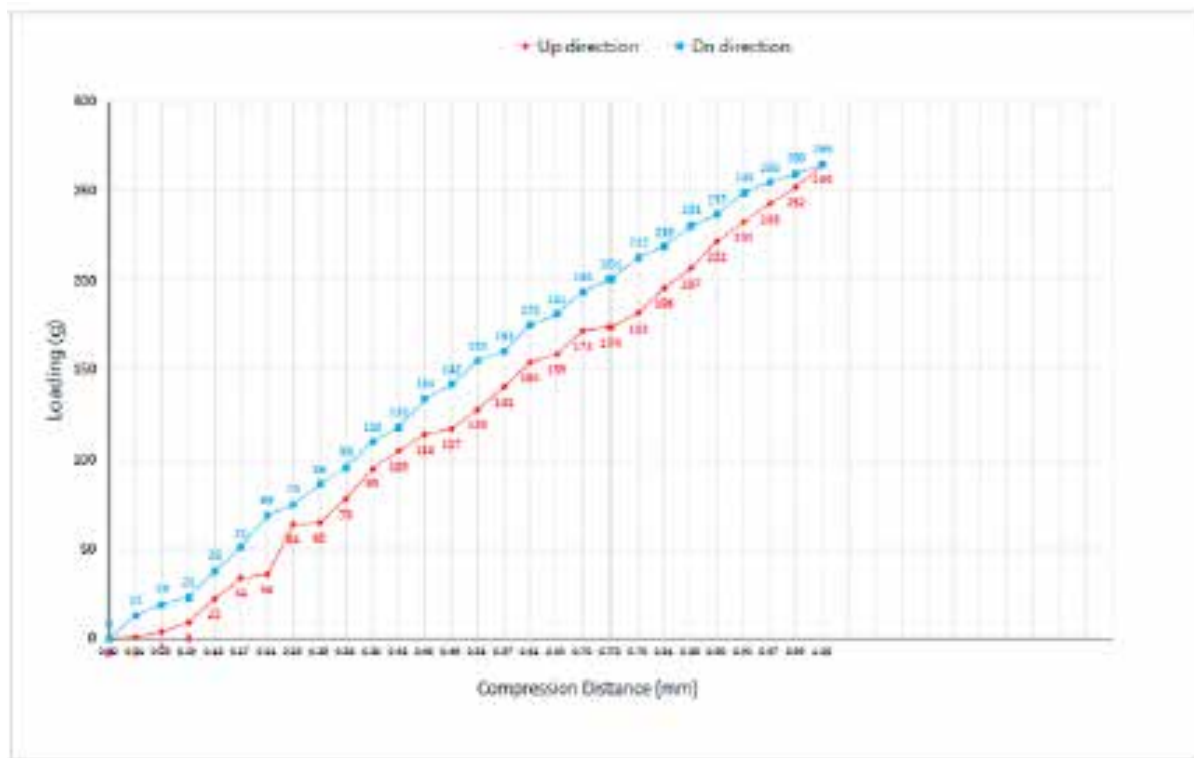
- ① Contact Spring      ③ Length (ex : 2,5mm = 15)  
② Width (ex : 1,5mm = 15)      ④ Height (ex : 85mm = 085)

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)	1.00	
	Down direction	Up direction
0.00	0	0
0.01	15	1
0.02	19	4
0.03	23	7
0.04	28	10
0.05	33	13
0.06	37	16
0.07	42	19
0.08	46	22
0.09	51	25
0.10	55	28
0.11	59	31
0.12	63	34
0.13	67	37
0.14	71	40
0.15	75	43
0.16	79	46
0.17	83	49
0.18	87	52
0.19	91	55
0.20	95	58
0.21	99	61
0.22	103	64
0.23	107	67
0.24	111	70
0.25	115	73
0.26	119	76
0.27	123	79
0.28	127	82
0.29	131	85
0.30	135	88
0.31	139	91
0.32	143	94
0.33	147	97
0.34	151	100
0.35	155	103
0.36	159	106
0.37	163	109
0.38	167	112
0.39	171	115
0.40	175	118
0.41	179	121
0.42	183	124
0.43	187	127
0.44	191	130
0.45	195	133
0.46	199	136
0.47	203	139
0.48	207	142
0.49	211	145
0.50	215	148
0.51	219	151
0.52	223	154
0.53	227	157
0.54	231	160
0.55	235	163
0.56	239	166
0.57	243	169
0.58	247	172
0.59	251	175
0.60	255	178
0.61	259	181
0.62	263	184
0.63	267	187
0.64	271	190
0.65	275	193
0.66	279	196
0.67	283	199
0.68	287	202
0.69	291	205
0.70	295	208
0.71	299	211
0.72	303	214
0.73	307	217
0.74	311	220
0.75	315	223
0.76	319	226
0.77	323	229
0.78	327	232
0.79	331	235
0.80	335	238
0.81	339	241
0.82	343	244
0.83	347	247
0.84	351	250
0.85	355	253
0.86	359	256
0.87	363	259
0.88	367	262
0.89	371	265
0.90	375	268
0.91	379	271
0.92	383	274
0.93	387	277
0.94	391	280
0.95	395	283
0.96	399	286
0.97	403	289
0.98	407	292
0.99	411	295
1.00	415	298

NOTE

\*Only valid for gold plated version