SMT CONTACT SPRINGS
OTG2030036

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

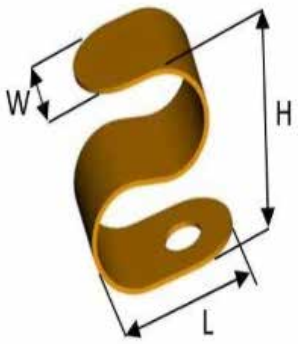
These spring finger contacts (SMT) are designed to withstand tens of thousands of compression cycles. They are widely used for connections on automotive projects for example. These spring finger contacts are delivered in reel for automatic SMT assembly.

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.

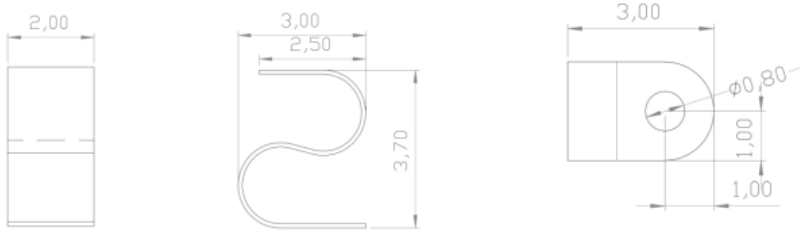
Spring finger contacts (SMT) can be standard (see our catalog below) or tailor-made.

PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		2,00 mm ± 0,2
Length		3,00 mm ± 0,2
Height		3,60 mm ± 0,2
Basic material		Copper berylluim (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm - 2µm 0.025µm - 0.075µm

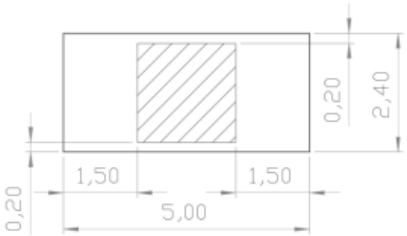


DIMENSIONS (mm)

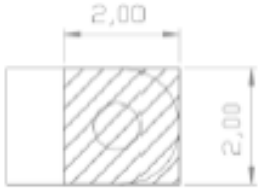


RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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.

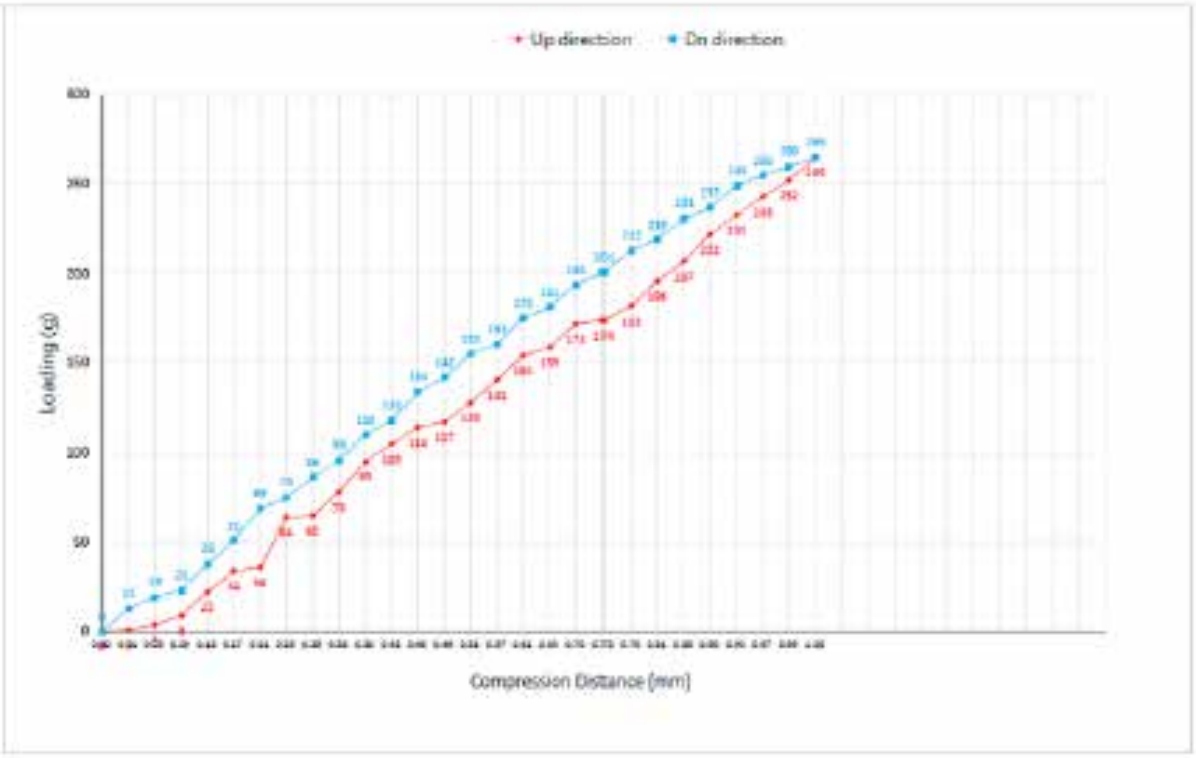
BUILDING AN ITEM NUMBER

OTG 20 30 036
❶ ❷ ❸ ❹

❶ *Contact Spring*
❷ *Width (ex : 1,5mm = 15)*
❸ *Length (ex : 2,5mm = 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)	1.05	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.01	13	1
0.03	19	4
0.09	23	9
0.13	39	22
0.17	51	34
0.21	69	34
0.25	78	64
0.29	86	68
0.33	95	76
0.38	110	93
0.42	118	105
0.46	134	114
0.49	142	117
0.51	155	135
0.57	161	141
0.61	175	154
0.66	181	169
0.70	194	172
0.75	201	176
0.79	213	182
0.81	217	196
0.86	231	207
0.90	237	222
0.93	249	232
0.97	255	245
0.99	260	252
1.00	265	265

NOTE

*Only valid for gold plated version