SMT CONTACT SPRINGS
OTG2545035

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

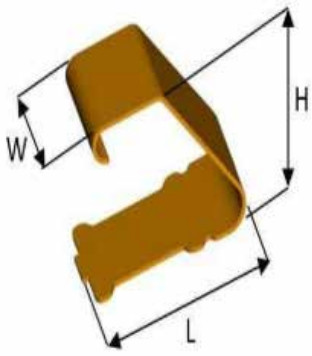
These spring finger contacts (SMT) are designed to withstand tens of thousands of compression cycles. They are widely used for connections on automotive projects for example. These spring finger contacts are delivered in reel for automatic SMT assembly.

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.

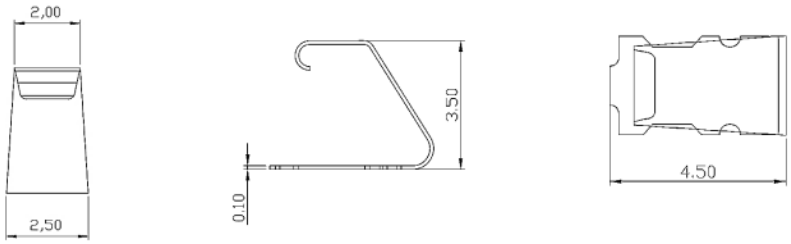
Spring finger contacts (SMT) can be standard (see our catalog below) or tailor-made.

PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		2,50 mm ± 0,2
Length		4,50 mm ± 0,2
Height		3,50 mm ± 0,2
Basic material		Copper berylluim (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm - 2µm 0.025µm - 0.075µm

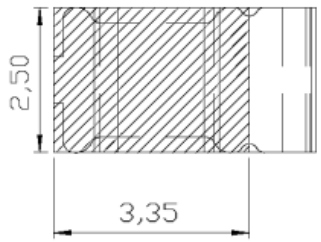


DIMENSIONS (mm)

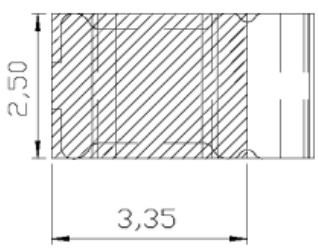


RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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.

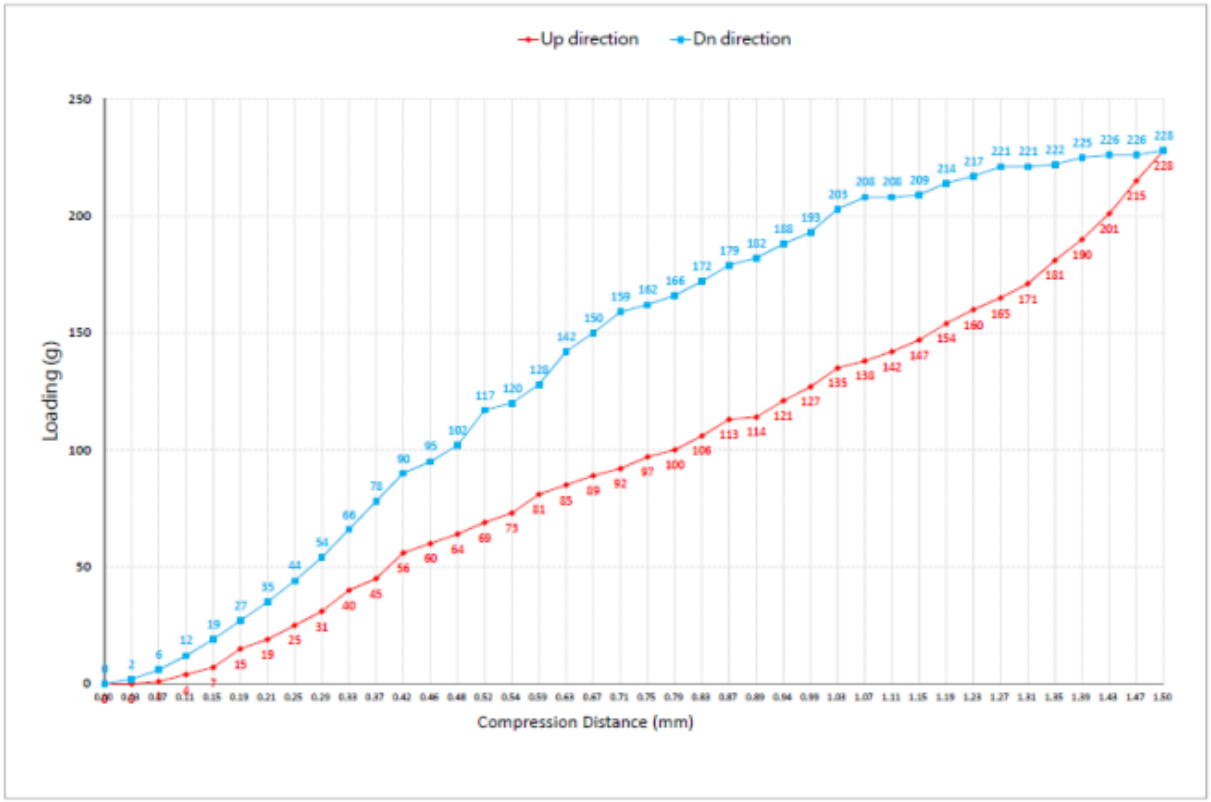
BUILDING AN ITEM NUMBER

OTG 25 45 035
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)	1.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.00	0	0
0.03	2	0
0.07	6	1
0.11	12	4
0.15	19	7
0.19	27	15
0.21	35	19
0.25	44	25
0.29	54	31
0.33	66	40
0.37	78	45
0.42	90	56
0.46	95	60
0.48	102	64
0.52	117	69
0.54	120	73
0.59	128	81
0.63	142	85
0.67	150	89

Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.71	159	92
0.75	162	97
0.79	166	100
0.83	172	106
0.87	179	113
0.89	182	114
0.94	188	121
0.99	193	127
1.03	203	135
1.07	208	138
1.11	208	142
1.15	209	147
1.19	214	154
1.23	217	160
1.27	221	165
1.31	221	171
1.35	222	181
1.39	225	190
1.43	226	201
1.47	226	215
1.50	228	228

NOTE

*Only valid for gold plated version