SMT CONTACT SPRINGS
OTG2543035

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

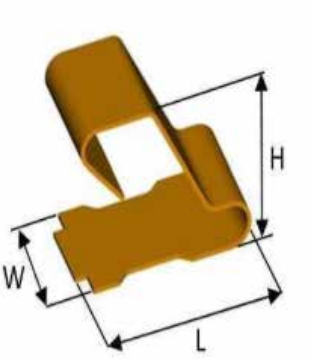
These spring finger contacts (SMT) are designed to withstand tens of thousands of compression cycles. They are widely used for connections on automotive projects for example. These spring finger contacts are delivered in reel for automatic SMT assembly.

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.

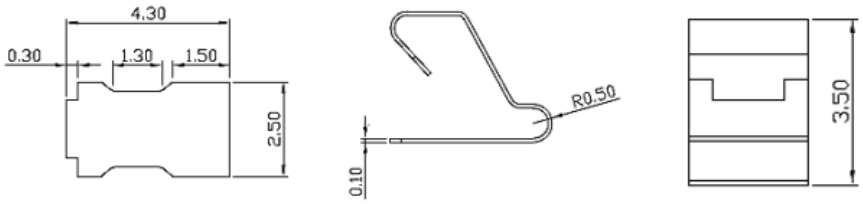
Spring finger contacts (SMT) can be standard (see our catalog below) or tailor-made.

PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		2,50 mm ± 0,2
Length		4,30 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

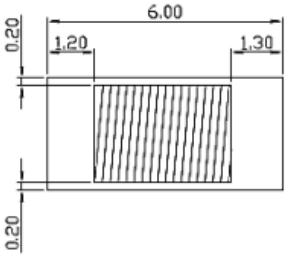


DIMENSIONS (mm)

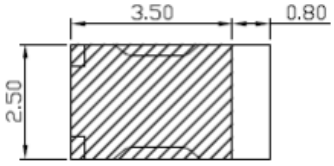


RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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.

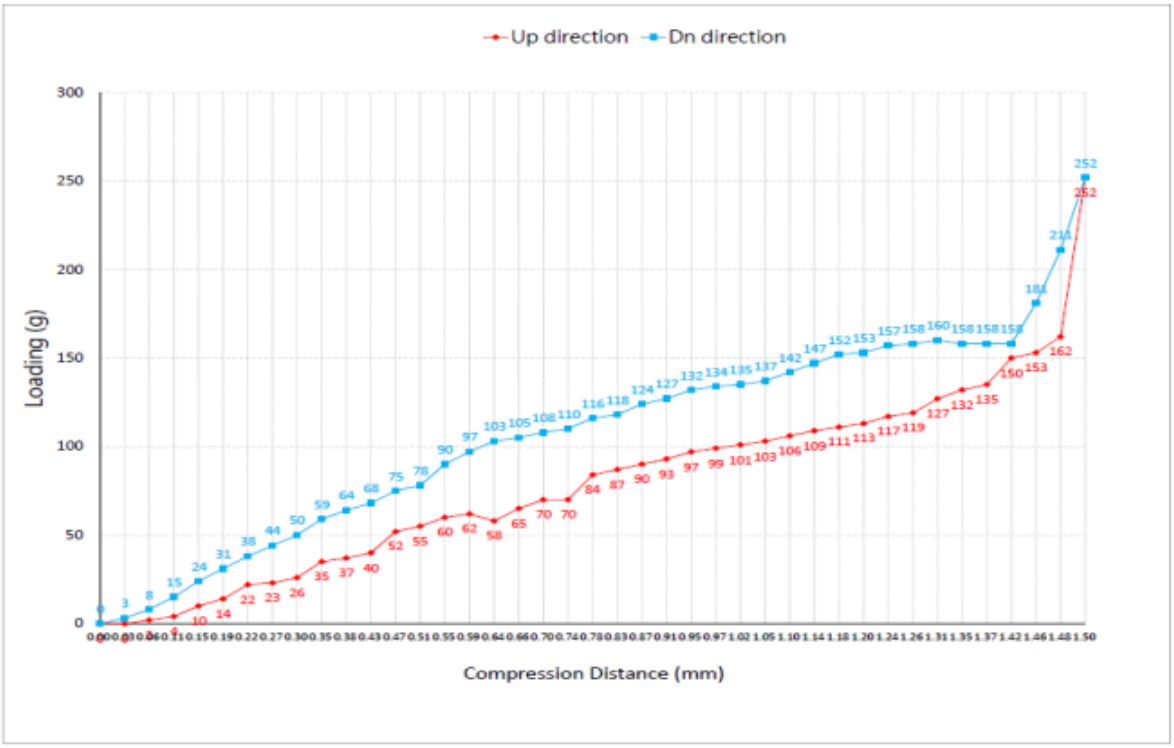
BUILDING AN ITEM NUMBER

OTG 25 43 035
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	0	0
0.03	3	0
0.06	8	2
0.11	15	4
0.15	24	10
0.19	31	14
0.22	38	22
0.27	44	23
0.3	50	26
0.35	59	35
0.38	64	37
0.43	68	40
0.47	75	52
0.51	78	55
0.55	90	60
0.59	97	62
0.64	103	58
0.66	105	65
0.7	108	70
0.74	110	70

Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.78	116	84
0.83	118	87
0.87	124	90
0.91	127	93
0.95	132	97
0.97	134	99
1.02	135	101
1.05	137	103
1.1	142	106
1.14	147	109
1.18	152	111
1.2	153	113
1.24	157	117
1.26	158	119
1.31	160	127
1.35	158	132
1.37	158	135
1.42	158	150
1.46	181	153
1.48	211	162
1.5	252	252

NOTE

*Only valid for gold plated version