SMT CONTACT SPRINGS
OTG3040051

COMPELMA
Part of ice

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.
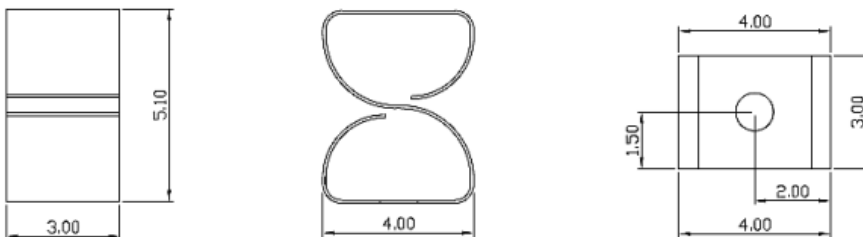
PRODUCT SPECIFICATIONS

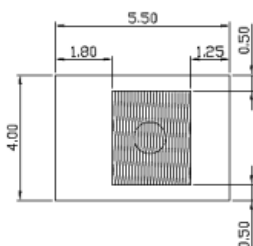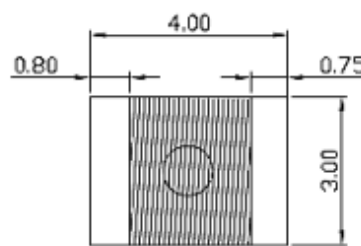| PROPERTY		VALUE TOLERANCE
Thickness		0,08 mm
Width		3,00 mm $\pm$ 0,2
Length		4,00 mm $\pm$ 0,2
Height		5,10 mm $\pm$ 0,2
Basic material		Copper berylluim (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm - 2µm 0.025µm - 0.075µm
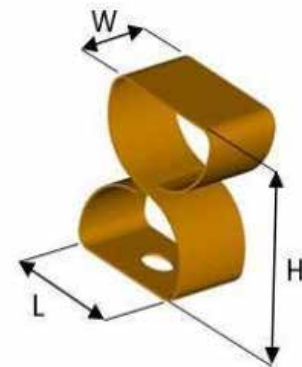
DIMENSIONS (mm)

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.
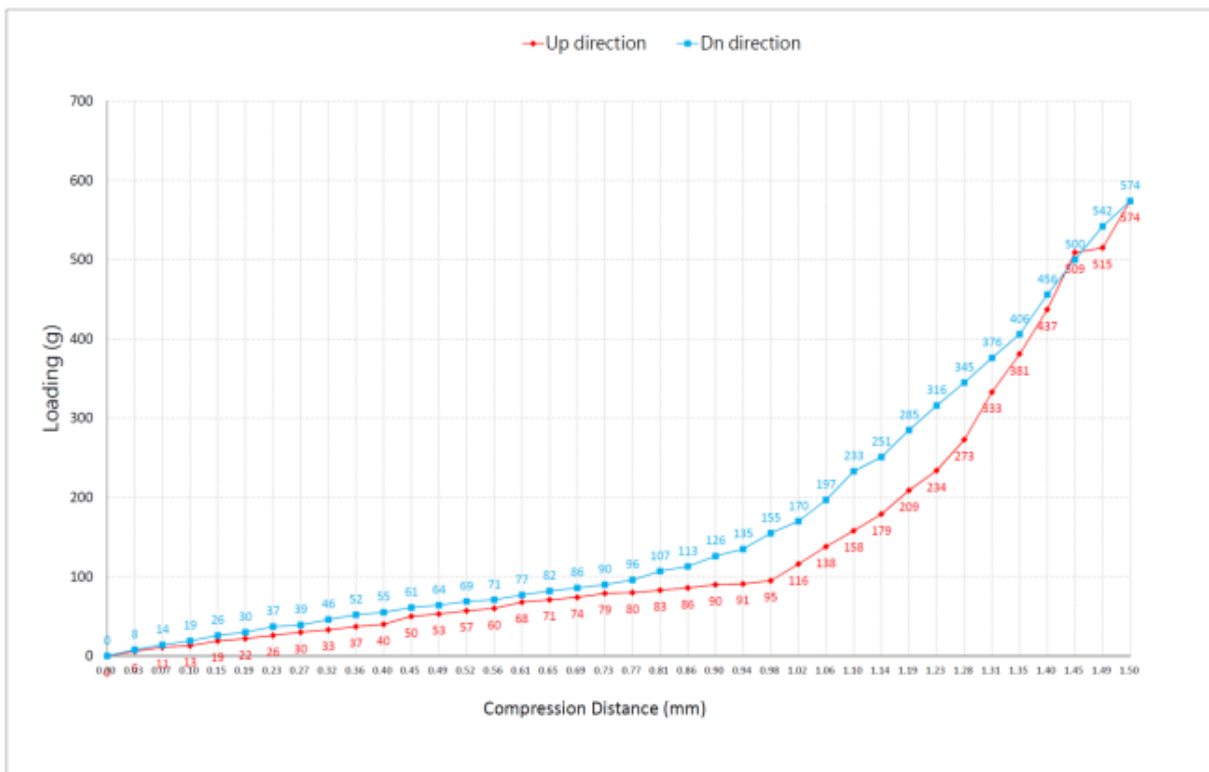
BUILDING AN ITEM NUMBER

OTG 30 40 051
❶ ❷ ❸ ❹

❶ Contact Spring   ❸ Length (ex : 2,5mm = 15)
❷ Width (ex : 1,5mm = 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	8	6
0.07	14	11
0.1	19	13
0.15	26	19
0.19	30	22
0.23	37	26
0.27	39	30
0.32	46	33
0.36	52	37
0.4	55	40
0.45	61	50
0.49	64	53
0.52	69	57
0.56	71	60
0.61	77	68
0.65	82	71
0.69	86	74

Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.73	90	79
0.77	96	80
0.81	107	83
0.86	113	86
0.9	126	90
0.94	135	91
0.98	155	95
1.02	170	116
1.06	197	138
1.1	233	158
1.14	251	179
1.19	285	209
1.23	316	234
1.28	345	273
1.31	376	333
1.35	406	381
1.4	456	437
1.45	500	509
1.49	542	515
1.5	574	574

NOTE

*Only valid for gold plated version