SMT CONTACT SPRINGS
OTG1527020

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.
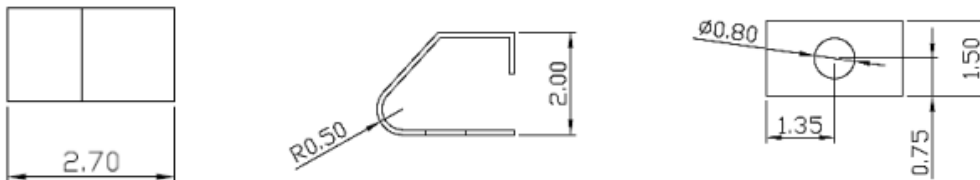
PRODUCT SPECIFICATIONS

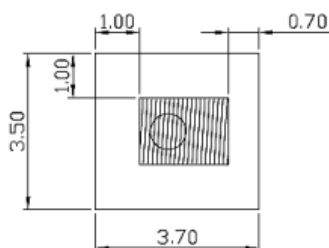| PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		1,50 mm $\pm$ 0,2
Length		2,70 mm $\pm$ 0,2
Height		2,00 mm $\pm$ 0,2
Basic material		Titanium copper
Plating	Barrier layer NI	1µm - 2µm
	Outer layer AU	0.025µm - 0.075µm
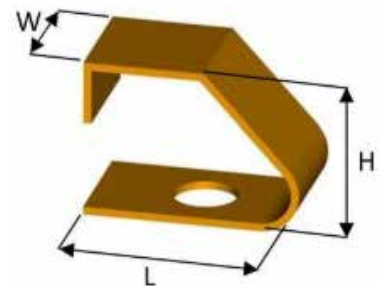
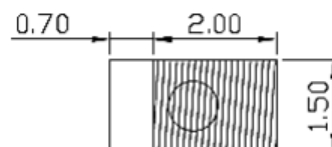

DIMENSIONS (mm)

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
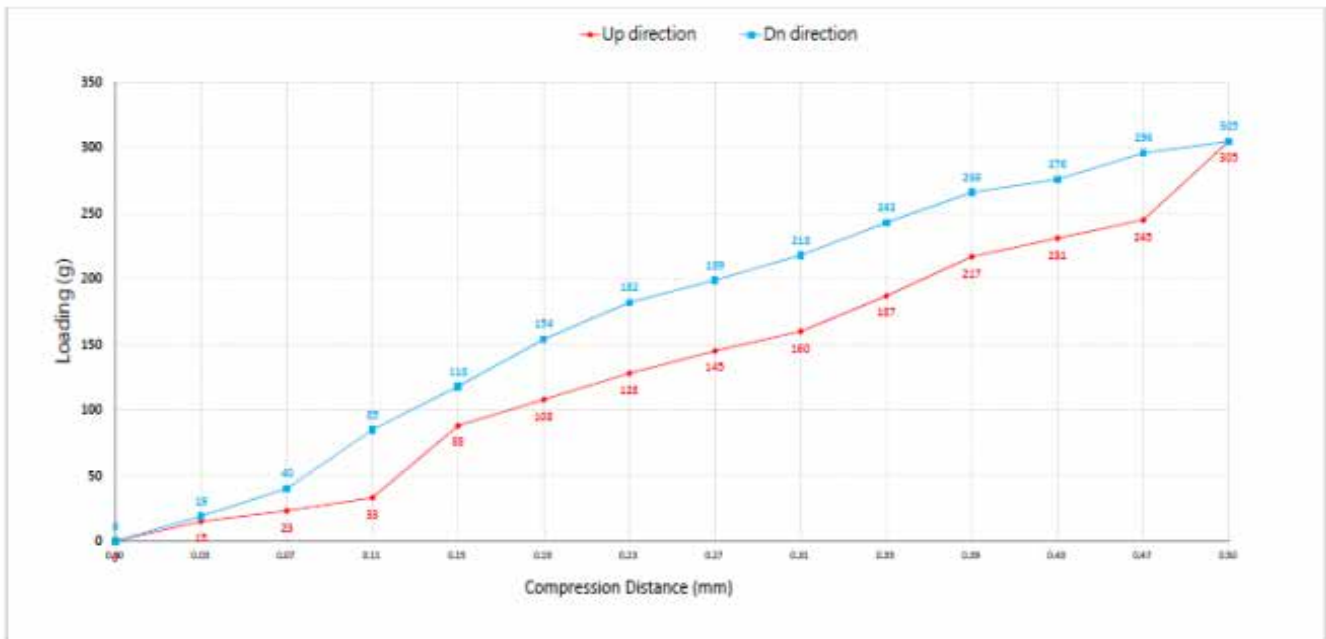
OTG 15 27 020
❶   ❷   ❸   ❹

(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)	1.10	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.03	19	15
0.07	40	23
0.11	85	33
0.15	118	88
0.19	154	108
0.23	182	128
0.27	199	145
0.31	218	160
0.35	243	187
0.39	266	217
0.43	276	231
0.47	296	245
0.5	305	305

NOTE

*Only valid for gold plated version