SMT CONTACT SPRINGS
OTG2570075

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

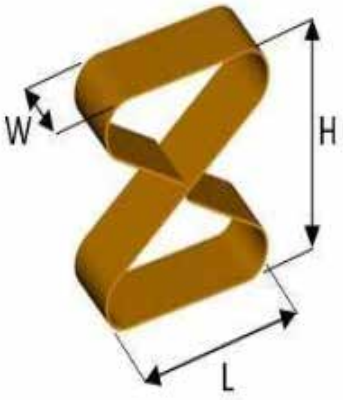
These spring finger contacts (SMT) are designed to withstand tens of thousands of compression cycles. They are widely used for connections on automotive projects for example. These spring finger contacts are delivered in reel for automatic SMT assembly.

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.

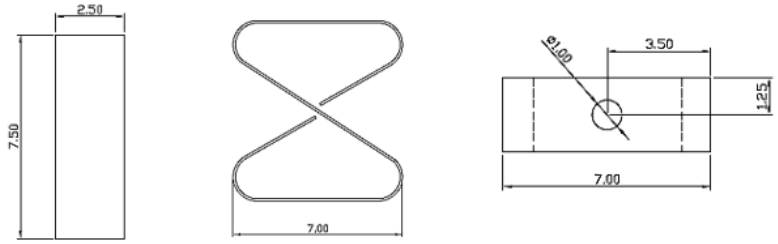
Spring finger contacts (SMT) can be standard (see our catalog below) or tailor-made.

PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		2,50 mm ± 0,2
Length		7,00 mm ± 0,2
Height		7,50 mm ± 0,2
Basic material		Copper berylluim (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm - 2µm 0.025µm - 0.075µm

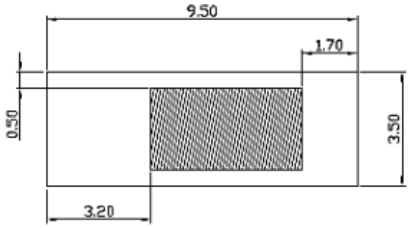


DIMENSIONS (mm)

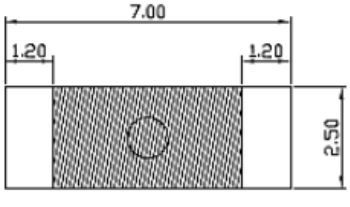


RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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.

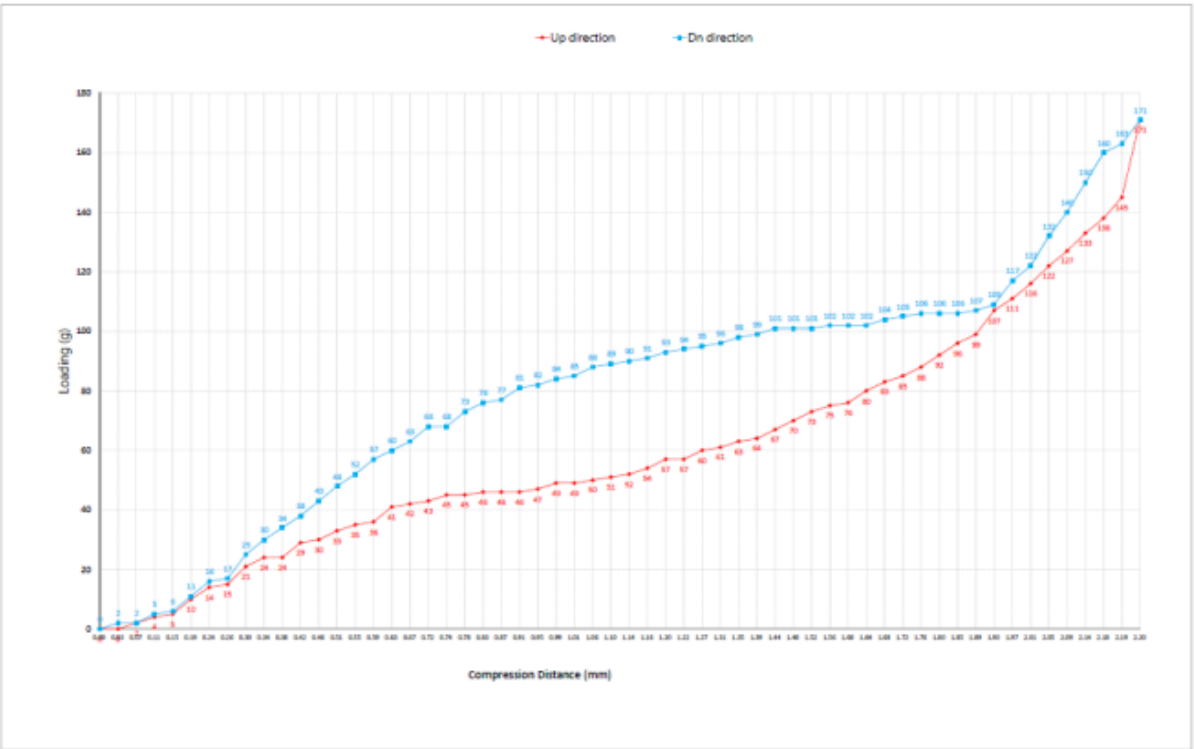
BUILDING AN ITEM NUMBER

OTG 25 70 075
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)	2.20	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.03	2	0
0.07	3	2
0.11	5	4
0.15	6	5
0.19	11	10
0.24	16	14
0.28	17	15
0.3	25	21
0.34	30	24
0.38	34	24
0.42	38	29
0.46	43	30
0.51	48	33
0.55	52	35
0.59	57	39
0.63	60	41
0.67	63	42
0.72	68	43
0.74	68	45
0.78	73	43
0.82	76	46
0.87	77	46
0.91	81	46
0.95	83	47
0.99	84	49
1.01	85	49
1.06	88	50
1.1	89	51

Total Compression Distance(mm)	2.20	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
1.14	90	52
1.16	91	54
1.2	93	57
1.22	94	57
1.27	95	60
1.31	96	61
1.35	98	63
1.39	99	64
1.44	101	67
1.48	101	70
1.52	101	73
1.56	102	75
1.6	102	78
1.64	102	80
1.68	104	83
1.72	105	85
1.76	106	88
1.8	106	92
1.88	106	98
1.89	107	99
1.92	109	107
1.97	117	111
2.01	124	116
2.05	132	122
2.09	140	127
2.14	150	133
2.18	160	138
2.19	163	145
2.2	171	171

NOTE

*Only valid for gold plated version