

**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.

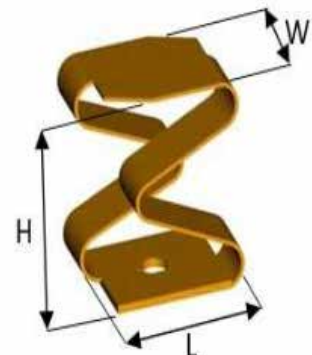
We provide compression rates and associated forces for each spring finger contact on request. Recommended compression is 20% to 40% of the overall contact height.

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

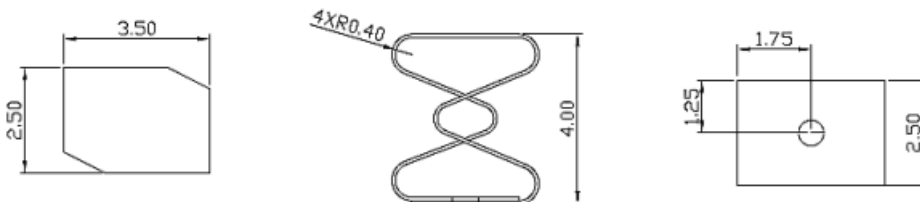


## PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		2,50 mm $\pm$ 0,2
Length		3,50 mm $\pm$ 0,2
Height		4,00 mm $\pm$ 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1 $\mu$ m - 2 $\mu$ m 0.025 $\mu$ m - 0.075 $\mu$ m

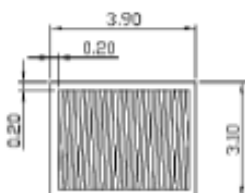


## DIMENSIONS (mm)

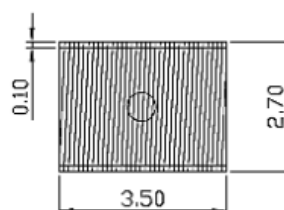


## RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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 35 040

①      ②      ③      ④

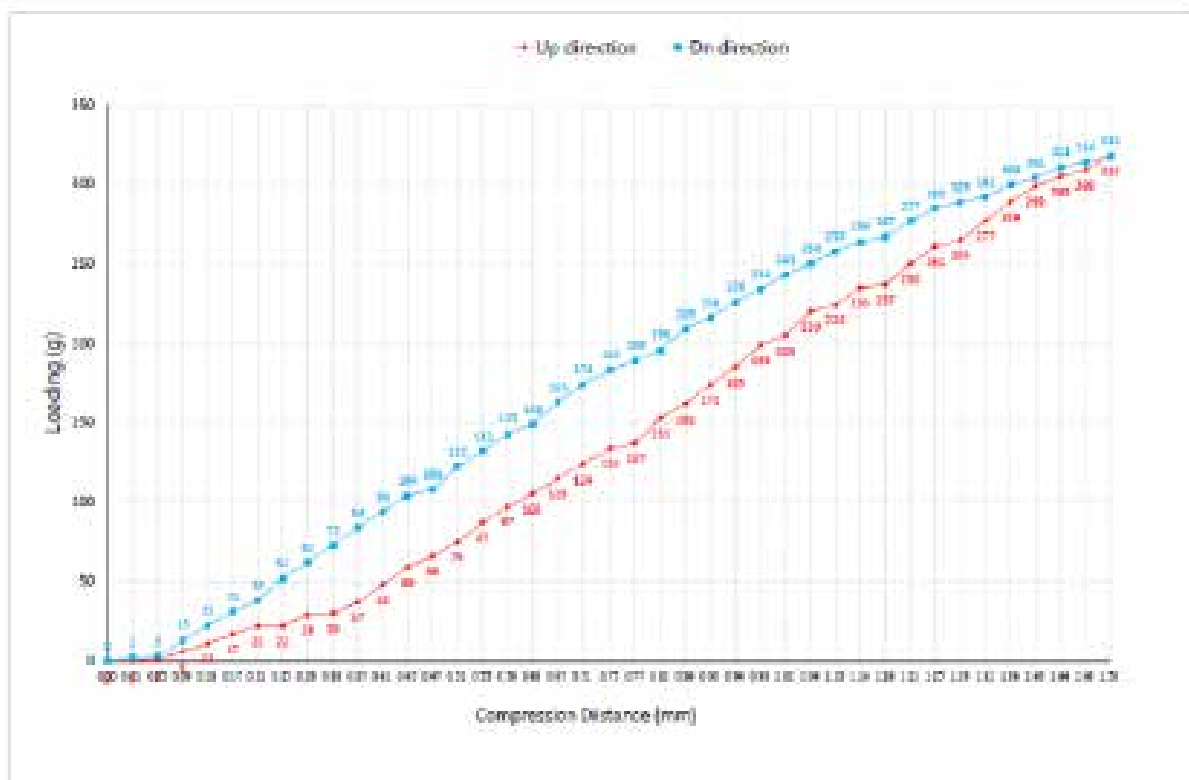
- ① Contact Spring      ③ Length (ex : 2,5mm = 15)  
② Width (ex : 1,5mm = 15)      ④ Height (ex : 85mm = 085)

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 Displacement (mm)		L50	
Displacement (mm)		loading force (g) Down direction	loading force (g) Up direction
0	0	0	0
0.01	1	1	1
0.02	2	2	2
0.03	3	3	3
0.04	4	4	4
0.05	5	5	5
0.06	6	6	6
0.07	7	7	7
0.08	8	8	8
0.09	9	9	9
0.10	10	10	10
0.11	11	11	11
0.12	12	12	12
0.13	13	13	13
0.14	14	14	14
0.15	15	15	15
0.16	16	16	16
0.17	17	17	17
0.18	18	18	18
0.19	19	19	19
0.20	20	20	20
0.21	21	21	21
0.22	22	22	22
0.23	23	23	23
0.24	24	24	24
0.25	25	25	25
0.26	26	26	26
0.27	27	27	27
0.28	28	28	28
0.29	29	29	29
0.30	30	30	30
0.31	31	31	31
0.32	32	32	32
0.33	33	33	33
0.34	34	34	34
0.35	35	35	35
0.36	36	36	36
0.37	37	37	37
0.38	38	38	38
0.39	39	39	39
0.40	40	40	40
0.41	41	41	41
0.42	42	42	42
0.43	43	43	43
0.44	44	44	44
0.45	45	45	45
0.46	46	46	46
0.47	47	47	47
0.48	48	48	48
0.49	49	49	49
0.50	50	50	50
0.51	51	51	51
0.52	52	52	52
0.53	53	53	53
0.54	54	54	54
0.55	55	55	55
0.56	56	56	56
0.57	57	57	57
0.58	58	58	58
0.59	59	59	59
0.60	60	60	60
0.61	61	61	61
0.62	62	62	62
0.63	63	63	63
0.64	64	64	64
0.65	65	65	65
0.66	66	66	66
0.67	67	67	67
0.68	68	68	68
0.69	69	69	69
0.70	70	70	70
0.71	71	71	71
0.72	72	72	72
0.73	73	73	73
0.74	74	74	74
0.75	75	75	75
0.76	76	76	76
0.77	77	77	77
0.78	78	78	78
0.79	79	79	79
0.80	80	80	80
0.81	81	81	81
0.82	82	82	82
0.83	83	83	83
0.84	84	84	84
0.85	85	85	85
0.86	86	86	86
0.87	87	87	87
0.88	88	88	88
0.89	89	89	89
0.90	90	90	90
0.91	91	91	91
0.92	92	92	92
0.93	93	93	93
0.94	94	94	94
0.95	95	95	95
0.96	96	96	96
0.97	97	97	97
0.98	98	98	98
0.99	99	99	99
1.00	100	100	100
1.01	101	101	101
1.02	102	102	102
1.03	103	103	103
1.04	104	104	104
1.05	105	105	105
1.06	106	106	106
1.07	107	107	107
1.08	108	108	108
1.09	109	109	109
1.10	110	110	110
1.11	111	111	111
1.12	112	112	112
1.13	113	113	113
1.14	114	114	114
1.15	115	115	115
1.16	116	116	116
1.17	117	117	117
1.18	118	118	118
1.19	119	119	119
1.20	120	120	120

Total Compression Displacement (mm)		L50	
Displacement (mm)		loading force (g) Down direction	loading force (g) Up direction
0.70	875	875	875
0.71	880	880	880
0.72	885	885	885
0.73	890	890	890
0.74	895	895	895
0.75	900	900	900
0.76	905	905	905
0.77	910	910	910
0.78	915	915	915
0.79	920	920	920
0.80	925	925	925
0.81	930	930	930
0.82	935	935	935
0.83	940	940	940
0.84	945	945	945
0.85	950	950	950
0.86	955	955	955
0.87	960	960	960
0.88	965	965	965
0.89	970	970	970
0.90	975	975	975
0.91	980	980	980
0.92	985	985	985
0.93	990	990	990
0.94	995	995	995
0.95	1000	1000	1000
0.96	1005	1005	1005
0.97	1010	1010	1010
0.98	1015	1015	1015
0.99	1020	1020	1020
1.00	1025	1025	1025
1.01	1030	1030	1030
1.02	1035	1035	1035
1.03	1040	1040	1040
1.04	1045	1045	1045
1.05	1050	1050	1050
1.06	1055	1055	1055
1.07	1060	1060	1060
1.08	1065	1065	1065
1.09	1070	1070	1070
1.10	1075	1075	1075
1.11	1080	1080	1080
1.12	1085	1085	1085
1.13	1090	1090	1090
1.14	1095	1095	1095
1.15	1100	1100	1100
1.16	1105	1105	1105
1.17	1110	1110	1110
1.18	1115	1115	1115
1.19	1120	1120	1120
1.20	1125	1125	1125

NOTE

\*Only valid for gold plated version