

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.

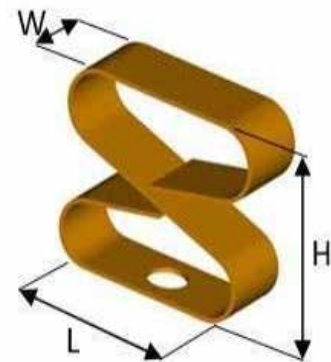
We provide compression rates and associated forces for each spring finger contact on request. Recommended compression is 20% to 40% of the overall contact height.

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

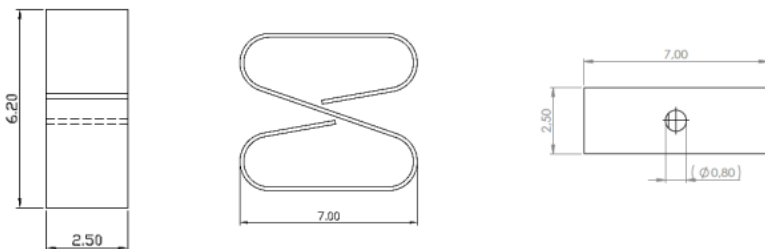


PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,015 mm
Width		2,50 mm $\pm$ 0,2
Length		7,00 mm $\pm$ 0,2
Height		6,20 mm $\pm$ 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1 μ m - 2 μ m 0.025 μ m - 0.075 μ m

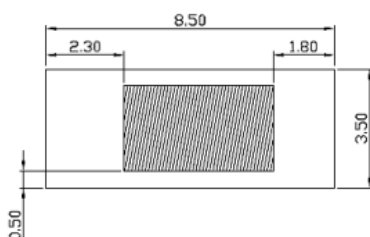


DIMENSIONS (mm)

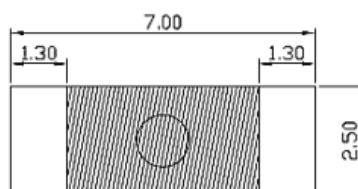


RECOMMENDED RESERVED AREA & PAD FOR THE PCB (mm)

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 70 062

① ② ③ ④

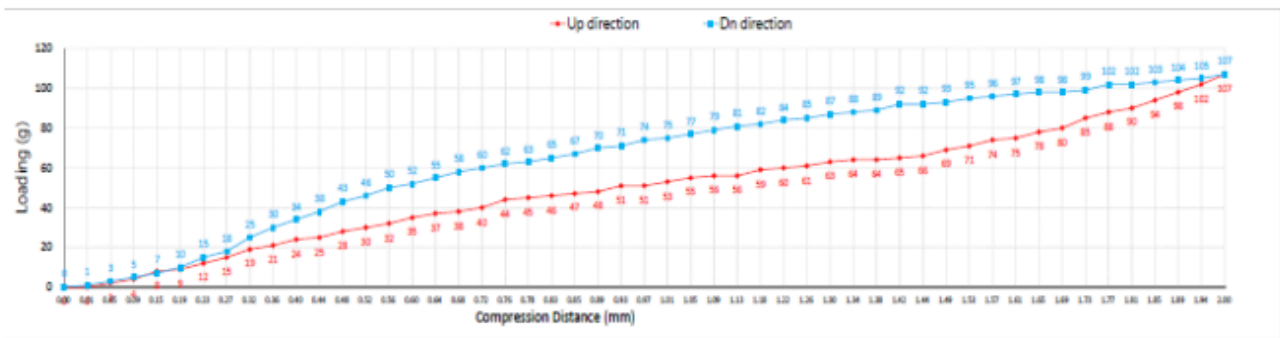
- ① Contact Spring ③ Length (ex : 2,5mm = 15)
② Width (ex : 1,5mm = 15) ④ Height (ex : 85mm = 085)

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 Distance(mm)	2.00	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.00	0	0
0.01	1	0
0.02	2	1
0.03	3	2
0.04	4	3
0.05	5	4
0.06	6	5
0.07	7	6
0.08	8	7
0.09	9	8
0.10	10	9
0.11	11	10
0.12	12	11
0.13	13	12
0.14	14	13
0.15	15	14
0.16	16	15
0.17	17	16
0.18	18	17
0.19	19	18
0.20	20	19
0.21	21	20
0.22	22	21
0.23	23	22
0.24	24	23
0.25	25	24
0.26	26	25
0.27	27	26
0.28	28	27
0.29	29	28
0.30	30	29
0.31	31	30
0.32	32	31
0.33	33	32
0.34	34	33
0.35	35	34
0.36	36	35
0.37	37	36
0.38	38	37
0.39	39	38
0.40	40	39
0.41	41	40
0.42	42	41
0.43	43	42
0.44	44	43
0.45	45	44
0.46	46	45
0.47	47	46
0.48	48	47
0.49	49	48
0.50	50	49
0.51	51	50
0.52	52	51
0.53	53	52
0.54	54	53
0.55	55	54
0.56	56	55
0.57	57	56
0.58	58	57
0.59	59	58
0.60	60	59
0.61	61	60
0.62	62	61
0.63	63	62
0.64	64	63
0.65	65	64
0.66	66	65
0.67	67	66
0.68	68	67
0.69	69	68
0.70	70	69
0.71	71	70
0.72	72	71
0.73	73	72
0.74	74	73
0.75	75	74
0.76	76	75
0.77	77	76
0.78	78	77
0.79	79	78
0.80	80	79
0.81	81	80
0.82	82	81
0.83	83	82
0.84	84	83
0.85	85	84
0.86	86	85
0.87	87	86
0.88	88	87
0.89	89	88
0.90	90	89
0.91	91	90
0.92	92	91
0.93	93	92
0.94	94	93
0.95	95	94
0.96	96	95
0.97	97	96
0.98	98	97
0.99	99	98
1.00	100	99
1.01	101	100
1.02	102	101
1.03	103	102
1.04	104	103
1.05	105	104
1.06	106	105
1.07	107	106
1.08	108	107
1.09	109	108
1.10	110	109
1.11	111	110
1.12	112	111
1.13	113	112
1.14	114	113
1.15	115	114
1.16	116	115
1.17	117	116
1.18	118	117
1.19	119	118
1.20	120	119
1.21	121	120
1.22	122	121
1.23	123	122
1.24	124	123
1.25	125	124
1.26	126	125
1.27	127	126
1.28	128	127
1.29	129	128
1.30	130	129
1.31	131	130
1.32	132	131
1.33	133	132
1.34	134	133
1.35	135	134
1.36	136	135
1.37	137	136
1.38	138	137
1.39	139	138
1.40	140	139
1.41	141	140
1.42	142	141
1.43	143	142
1.44	144	143
1.45	145	144
1.46	146	145
1.47	147	146
1.48	148	147
1.49	149	148
1.50	150	149
1.51	151	150
1.52	152	151
1.53	153	152
1.54	154	153
1.55	155	154
1.56	156	155
1.57	157	156
1.58	158	157
1.59	159	158
1.60	160	159
1.61	161	160
1.62	162	161
1.63	163	162
1.64	164	163
1.65	165	164
1.66	166	165
1.67	167	166
1.68	168	167
1.69	169	168
1.70	170	169
1.71	171	170
1.72	172	171
1.73	173	172
1.74	174	173
1.75	175	174
1.76	176	175
1.77	177	176
1.78	178	177
1.79	179	178
1.80	180	179
1.81	181	180
1.82	182	181
1.83	183	182
1.84	184	183
1.85	185	184
1.86	186	185
1.87	187	186
1.88	188	187
1.89	189	188
1.90	190	189
1.91	191	190
1.92	192	191
1.93	193	192
1.94	194	193
1.95	195	194
1.96	196	195
1.97	197	196
1.98	198	197
1.99	199	198
2.00	200	199

Total Compression Distance(mm)	2.00	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
1.01	75	55
1.02	77	57
1.03	79	59
1.04	81	61
1.05	83	63
1.06	85	65
1.07	87	67
1.08	89	69
1.09	91	71
1.10	93	73
1.11	95	75
1.12	97	77
1.13	99	79
1.14	101	81
1.15	103	83
1.16	105	85
1.17	107	87
1.18	109	89
1.19	111	91
1.20	113	93
1.21	115	95
1.22	117	97
1.23	119	99
1.24	121	101
1.25	123	103
1.26	125	105
1.27	127	107
1.28	129	109
1.29	131	111
1.30	133	113
1.31	135	115
1.32	137	117
1.33	139	119
1.34	141	121
1.35	143	123
1.36	145	125
1.37	147	127
1.38	149	129
1.39	151	131
1.40	153	133
1.41	155	135
1.42	157	137
1.43	159	139
1.44	161	141
1.45	163	143
1.46	165	145
1.47	167	147
1.48	169	149
1.49	171	151
1.50	173	153
1.51	175	155
1.52	177	157
1.53	179	159
1.54	181	161
1.55	183	163
1.56	185	165
1.57	187	167
1.58	189	169
1.59	191	171
1.60	193	173
1.61	195	175
1.62	197	177
1.63	199	179
1.64	201	181
1.65	203	183
1.66	205	185
1.67	207	187
1.68	209	189
1.69	211	191
1.70	213	193
1.71	215	195
1.72	217	197
1.73	219	199
1.74	221	201
1.75	223	203
1.76	225	205
1.77	227	207
1.78	229	209
1.79	231	211
1.80	233	213
1.81	235	215
1.82	237	217
1.83	239	219
1.84	241	221
1.85	243	223
1.86	245	225
1.87	247	227
1.88	249	229
1.89	251	231
1.90	253	233
1.91	255	235
1.92	257	237
1.93	259	239
1.94	261	241
1.95	263	243
1.96	265	245
1.97	267	247
1.98	269	249
1.99	271	251
2.00	273	253

NOTE

*Only valid for gold plated version