

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.

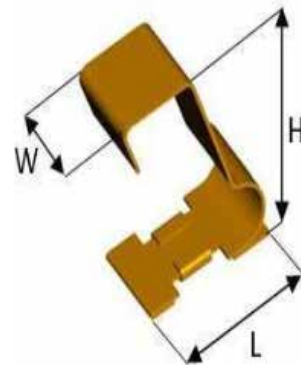
We provide compression rates and associated forces for each spring finger contact on request. Recommended compression is 20% to 40% of the overall contact height.

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

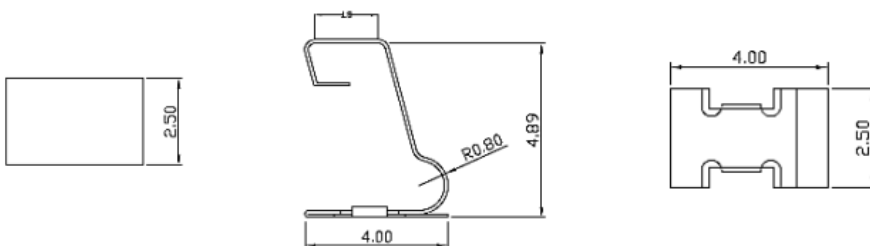


PRODUCT SPECIFICATIONS

PROPERTY		VALUE TOLERANCE
Thickness		0,01 mm
Width		2,50 mm \pm 0,2
Length		4,00 mm \pm 0,2
Height		5,00 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

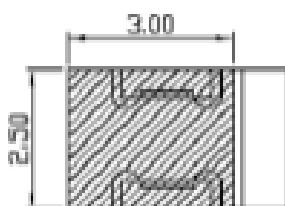


DIMENSIONS (mm)



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 40 050

① ② ③ ④

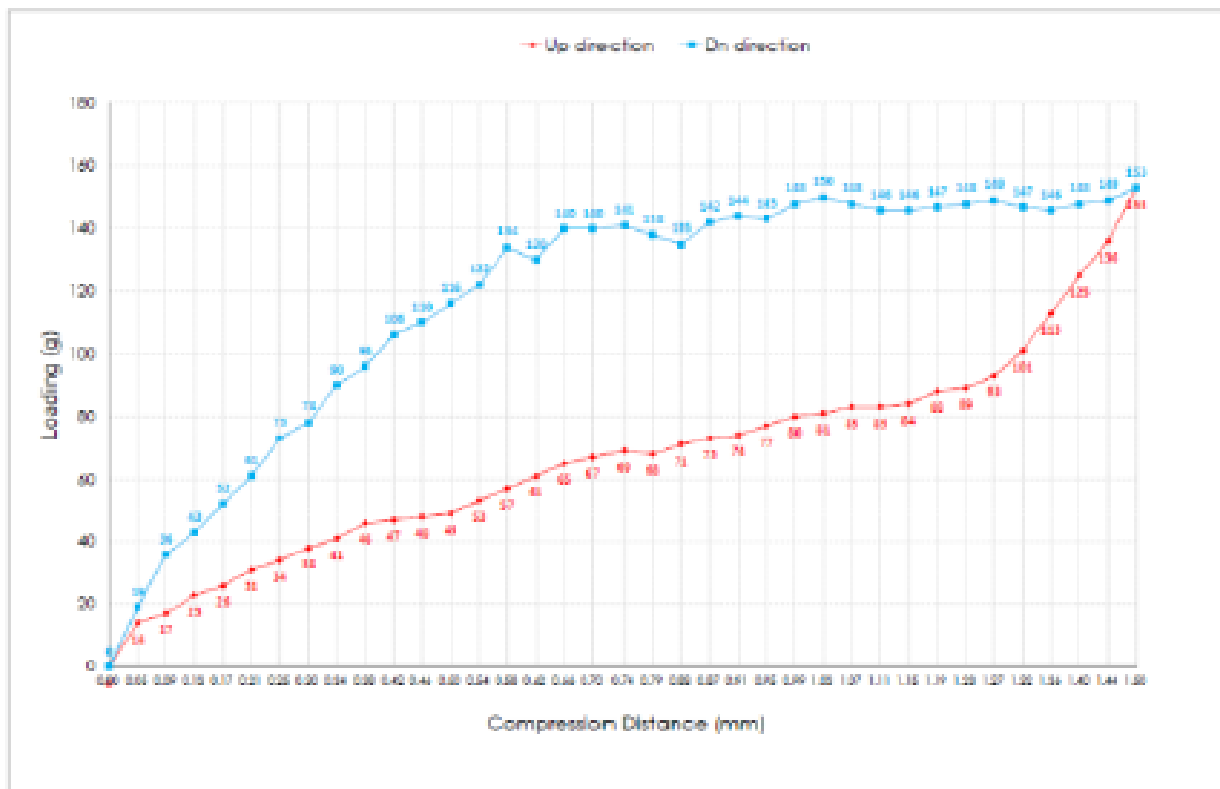
- ① Contact Spring ③ Length (ex : 2,5mm = 15)
② Width (ex : 1,5mm = 15) ④ Height (ex : 85mm = 085)

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)	1.50mm	
	Loading force [g]	
	Down direction	Up direction
0.00	0	0
0.05	14	14
0.10	17	17
0.15	23	23
0.20	28	28
0.25	34	34
0.30	38	38
0.35	42	42
0.40	46	46
0.45	47	47
0.50	48	48
0.55	49	49
0.60	50	50
0.65	52	52
0.70	54	54
0.75	56	56
0.80	58	58
0.85	60	60
0.90	62	62
0.95	64	64
1.00	66	66
1.05	68	68
1.10	70	70
1.15	72	72
1.20	74	74
1.25	76	76
1.30	78	78
1.35	80	80
1.40	82	82
1.45	84	84
1.50	86	86
1.55	88	88
1.60	90	90
1.65	92	92
1.70	94	94
1.75	96	96
1.80	98	98
1.85	100	100
1.90	102	102
1.95	104	104
2.00	106	106
2.05	108	108
2.10	110	110
2.15	112	112
2.20	114	114
2.25	116	116
2.30	118	118
2.35	120	120
2.40	122	122
2.45	124	124
2.50	126	126
2.55	128	128
2.60	130	130
2.65	132	132
2.70	134	134
2.75	136	136
2.80	138	138
2.85	140	140
2.90	142	142
2.95	144	144
3.00	146	146
3.05	148	148
3.10	150	150
3.15	152	152
3.20	154	154
3.25	156	156
3.30	158	158
3.35	160	160
3.40	162	162
3.45	164	164
3.50	166	166
3.55	168	168
3.60	170	170
3.65	172	172
3.70	174	174
3.75	176	176
3.80	178	178
3.85	180	180
3.90	182	182
3.95	184	184
4.00	186	186
4.05	188	188
4.10	190	190
4.15	192	192
4.20	194	194
4.25	196	196
4.30	198	198
4.35	200	200
4.40	202	202
4.45	204	204
4.50	206	206
4.55	208	208
4.60	210	210
4.65	212	212
4.70	214	214
4.75	216	216
4.80	218	218
4.85	220	220
4.90	222	222
4.95	224	224
5.00	226	226
5.05	228	228
5.10	230	230
5.15	232	232
5.20	234	234
5.25	236	236
5.30	238	238
5.35	240	240
5.40	242	242
5.45	244	244
5.50	246	246
5.55	248	248
5.60	250	250
5.65	252	252
5.70	254	254
5.75	256	256
5.80	258	258
5.85	260	260
5.90	262	262
5.95	264	264
6.00	266	266
6.05	268	268
6.10	270	270
6.15	272	272
6.20	274	274
6.25	276	276
6.30	278	278
6.35	280	280
6.40	282	282
6.45	284	284
6.50	286	286
6.55	288	288
6.60	290	290
6.65	292	292
6.70	294	294
6.75	296	296
6.80	298	298
6.85	300	300
6.90	302	302
6.95	304	304
7.00	306	306
7.05	308	308
7.10	310	310
7.15	312	312
7.20	314	314
7.25	316	316
7.30	318	318
7.35	320	320
7.40	322	322
7.45	324	324
7.50	326	326
7.55	328	328
7.60	330	330
7.65	332	332
7.70	334	334
7.75	336	336
7.80	338	338
7.85	340	340
7.90	342	342
7.95	344	344
8.00	346	346
8.05	348	348
8.10	350	350
8.15	352	352
8.20	354	354
8.25	356	356
8.30	358	358
8.35	360	360
8.40	362	362
8.45	364	364
8.50	366	366
8.55	368	368
8.60	370	370
8.65	372	372
8.70	374	374
8.75	376	376
8.80	378	378
8.85	380	380
8.90	382	382
8.95	384	384
9.00	386	386
9.05	388	388
9.10	390	390
9.15	392	392
9.20	394	394
9.25	396	396
9.30	398	398
9.35	400	400
9.40	402	402
9.45	404	404
9.50	406	406
9.55	408	408
9.60	410	410
9.65	412	412
9.70	414	414
9.75	416	416
9.80	418	418
9.85	420	420
9.90	422	422
9.95	424	424
10.00	426	426
10.05	428	428
10.10	430	430
10.15	432	432
10.20	434	434
10.25	436	436
10.30	438	438
10.35	440	440
10.40	442	442
10.45	444	444
10.50	446	446
10.55	448	448
10.60	450	450
10.65	452	452
10.70	454	454
10.75	456	456
10.80	458	458
10.85	460	460
10.90	462	462
10.95	464	464
11.00	466	466
11.05	468	468
11.10	470	470
11.15	472	472
11.20	474	474
11.25	476	476
11.30	478	478
11.35	480	480
11.40	482	482
11.45	484	484
11.50	486	486
11.55	488	488
11.60	490	490
11.65	492	492
11.70	494	494
11.75	496	496
11.80	498	498
11.85	500	500
11.90	502	502
11.95	504	504
12.00	506	506
12.05	508	508
12.10	510	510
12.15	512	512
12.20	514	514
12.25	516	516
12.30	518	518
12.35	520	520
12.40	522	522
12.45	524	524
12.50	526	526
12.55	528	528
12.60	530	530
12.65	532	532
12.70	534	534
12.75	536	536
12.80	538	538
12.85	540	540
12.90	542	542
12.95	544	544
13.00	546	546
13.05	548	548
13.10	550	550
13.15	552	552
13.20	554	554
13.25	556	556
13.30	558	558
13.35	560	560
13.40	562	562
13.45	564	564
13.50	566	566
13.55	568	568
13.60	570	570
13.65	572	572
13.70	574	574
13.75	576	576
13.80	578	578
13.85	580	580
13.90	582	582
13.95	584	584
14.00	586	586
14.05	588	588
14.10	590	590
14.15	592	592
14.20	594	594
14.25	596	596
14.30	598	598
14.35	600	600
14.40	602	602
14.45	604	604
14.50	606	606
14.55	608	608
14.60	610	610
14.65	612	612
14.70	614	614
14.75	616	616
14.80	618	618
14.85	620	620
14.90	622	622
14.95	624	624
15.00	626	626
15.05	628	628
15.10	630	630
15.15	632	632
15.20	634	634
15.25	636	636
15.30	638	638
15.35	640	640
15.40	642	642
15.45	644	644
15.50	646	646
15.55	648	648
15.60	650	650
15.65	652	652
15.70	654	654
15.75	656	656
15.80	658	658
15.85	660	660
15.90	662	662
15.95	664	664
16.00	666	666
16.05	668	668
16.10	670	670
16.15	672	672
16.20	674	674
16.25	676	676
16.30	678	678
16.35	680	680
16.40	682	682
16.45	684	684
16.50	686	686
16.55	688	688
16.60	690	690
16.65	692	692
16.70	694	694
16.75	696	696
16.80	698	698
16.85	700	700
16.90	702	702
16.95	704	704
17.00	706	706
17.05	708	708
17.10	710	710
17.15	712	712
17.20	714	714
17.25	716	716
17.30	718	718
17.35	720	720
17.40	722	722
17.45	724	724
17.50	726	726
17.55	728	728
17.60	730	730
17.65	732	732
17.70	734	734
17.75	736	736
17.80	738	738
17.85	740	740
17.90	742	742
17.95	744	744
18.00	746	746
18.05	748	748
18.10	750	750
18.15	752	752
18.20	754	754
18.25	756	756
18.30	758	758
18.35	760	760
18.40	762	762
18.45	764	764
18.50	766	766
18.55	768	768
18.60	770	770
18.65	772	772
18.70	774	774
18.75	776	776
18.80	778	778
18.85	780	780
18.90	782	782
18.95	784	784
19.00	786	786
19.05	788	788
19.10	790	790
19.15	792	792
19.20	794	794
19.25	796	796
19.30	798	798
19.35	800	800
19.40	802	802
19.45	804	804
19.50	806	806
19.55	808	808
19.60	810	810
19.65	812	812
19.70	814	814
19.75	816	816
19.80	818	818
19.85	820	820
19.90	822	822
19.95	824	824
20.00	826	826
20.05	828	828
20.10	830	830
20.15	832	832
20.20	834	834
20.25	836	836
20.30	838	838
20.35	840	840
20.40	842	842
20.45	844	844
20.50	846	846
20.55	848	848
20.60	850	850
20.65	852	852
20.70	854	854
20.75	856	856
20.80	858	858
20.85	860	860
20.90	862	862
20.95	864	86