SMD CONTACT SPRINGS
FCB-205X2070062B-YY-SMD

SMD contact springs are ideal for automatic assembly on printed circuit boards. They are soldered by the standard-reflow-soldering process.

The standard basic material used for SMD contact springs is copper beryllium (CuBe). However, other materials can also be supplied.

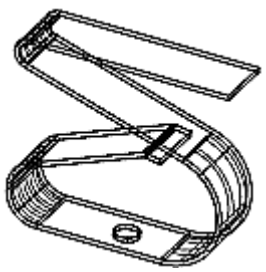
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

- Ideal for automatic assembly
- Standard basíc material: CuBe
- Standard plating: AU
- Available in different dimensions and types
- Almost unlimited working life

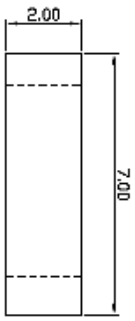
RoHS ✓ REACH ✓ REEL

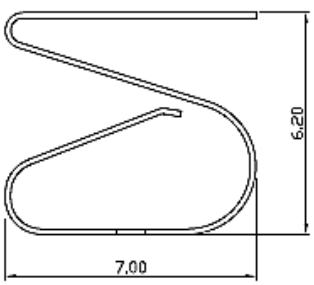
PRODUCT SPECIFICATIONS

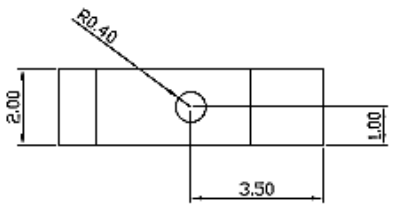
PROPERTY		VALUE / TOLERANCE
Thickness		0,15 mm
Width		2,00 mm ± 0,2
Length		7,00 mm ± 0,2
Height		6,20 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



DIMENSIONS (mm)

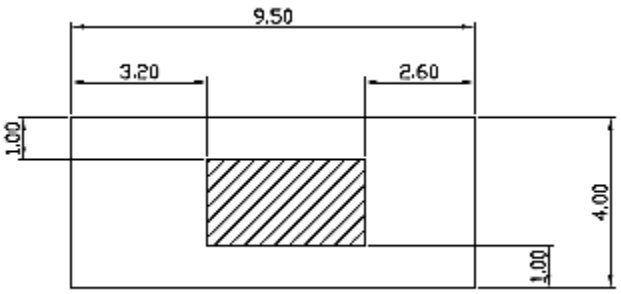




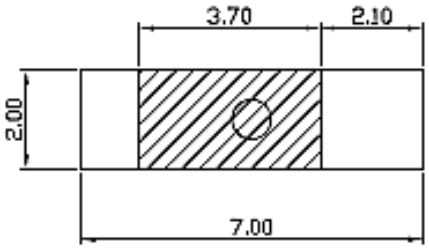


SMD CONTACT SPRINGS
FCB-205X2070062B-YY-SMD

RECOMMENDED RESERVED AREA ON THE PCB (mm)



RECOMMENDED PAD FOR THE PCB (mm)



DISCLAIMER

This is only a recommendation based on information available to mtc at the time of printing. Actual land pattern can be significantly different due to various materials and processes used in PCB assembly. mtc makes no representation or warranty of performance based on the recommended land pattern.

BUILDING AN ITEM NUMBER

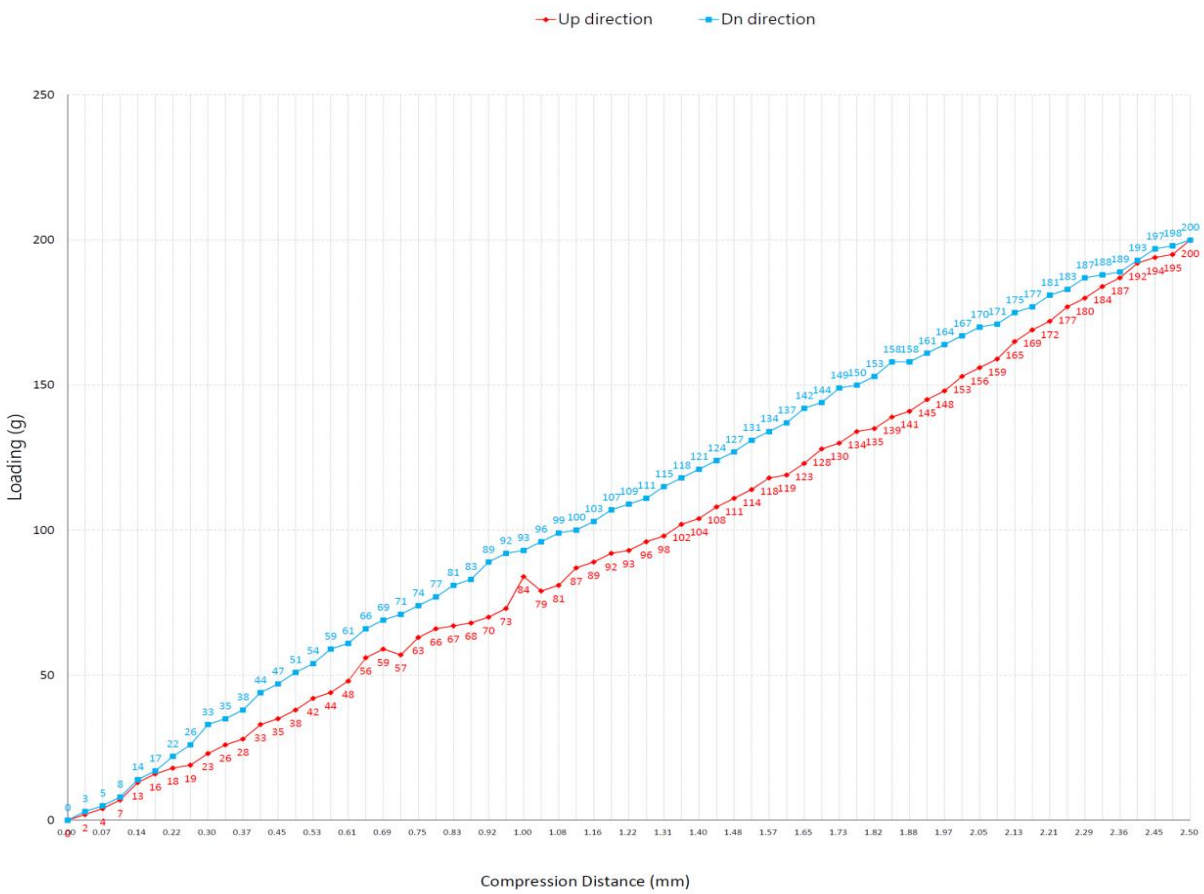
FCB-205X20700621B-YY-SMD

- Contact Spring
- Type number
- Dimensions
- Copper beryllium
- SMD type

G/AU	Gold-plated
S/SN	Tin-plated
A/AG	Silver-plated

Standard options

FORCE DEFLECTION DIAGRAM*



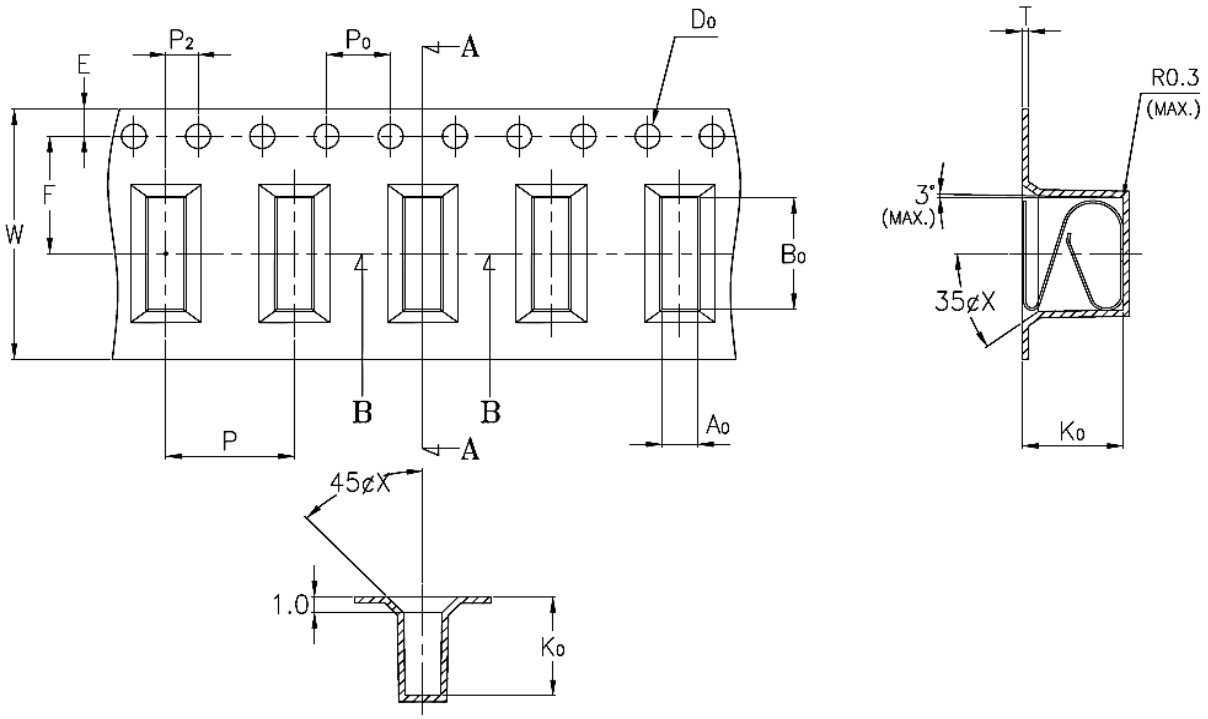
Total Compression Distance(mm)	2.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.03	3	2
0.07	5	4
0.09	8	7
0.14	14	13
0.18	17	16
0.22	22	18
0.26	26	19
0.3	33	23
0.32	35	26
0.37	38	28
0.41	44	33
0.45	47	35
0.49	51	38
0.53	54	42
0.57	59	44
0.61	61	48
0.65	66	56
0.69	69	59
0.73	71	57
0.75	74	63
0.79	77	66
0.83	81	67
0.87	83	68
0.92	89	70
0.96	92	73
1	93	84
1.04	96	79
1.08	99	81
1.12	100	87
1.16	103	89

Total Compression Distance(mm)	2.50	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
1.2	107	92
1.22	109	93
1.27	111	96
1.31	115	98
1.35	118	102
1.4	121	104
1.44	124	108
1.48	127	111
1.52	131	114
1.57	134	118
1.61	137	119
1.65	142	123
1.69	144	128
1.73	149	130
1.78	150	134
1.82	153	135
1.86	158	139
1.88	158	141
1.92	161	145
1.97	164	148
2.01	167	153
2.05	170	156
2.09	171	159
2.13	175	165
2.17	177	169
2.21	181	172
2.25	183	177
2.29	187	180
2.31	188	184
2.36	189	187
2.4	193	192
2.45	197	194
2.49	198	195
2.5	200	200

NOTE | * Only valid for gold-plated version

SMD CONTACT SPRINGS
FCB-205X2070062B-YY-SMD

PACKING SPECIFICATION – TAPE AND REEL (mm)



	W	A_0	B_0	K_0	P	F	E	D	P_0	P_2	T
	16,00	2,20	7,20	6,30	8,00	7,50	1,75	Ø 1,50	4,00	2,00	0,40
Tolerance	± 0,30	± 0,10	± 0,10	± 0,10	± 0,10	± 0,10	± 0,10	+ 0,10 - 0,00	± 0,10	± 0,10	± 0,05

- 10 sprocket hole pitch cumulative tolerance ± 0,20 mm.
- Carrier camber not to exceed 1 mm in 250 mm.
- A0 and B0 measured on a plane 0,3 mm above the bottom of the pocket.
- K0 measured from a plane on the inside bottom of the pocket to the top surface of the carrier.
- All dimensions meet EIA-481-B requirements.
- Material: Clear Polystyrene.
- Component load per 13'' reel: 1.200 pcs. (CG-134:4" core)