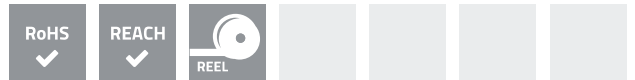


SMD contact springs are ideal for automatic assembly on printed circuit boards. They are soldered by the standard reflow-soldering process.

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

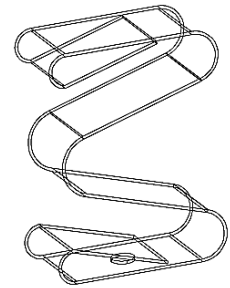
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

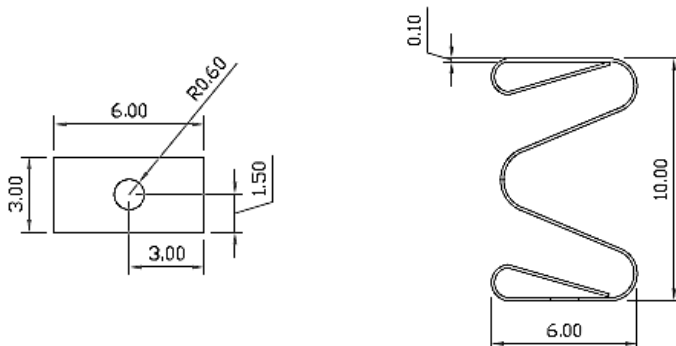


### PRODUCT SPECIFICATIONS

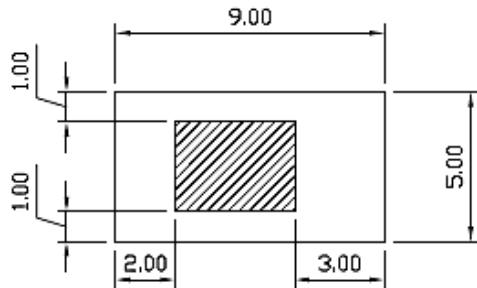
PROPERTY		VALUE / TOLERANCE
Thickness		0,1 mm
Width		3,0 mm ± 0,2
Length		6,0 mm ± 0,2
Height		10,0 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer Ni Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



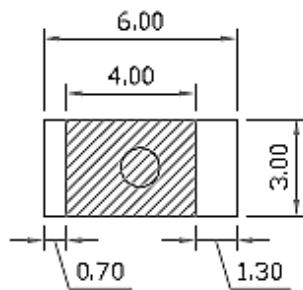
### DIMENSIONS (mm)



**RECOMMENDED RESERVED AREA ON THE PCB (mm)**



**RECOMMENDED PAD FOR THE PCB (mm)**

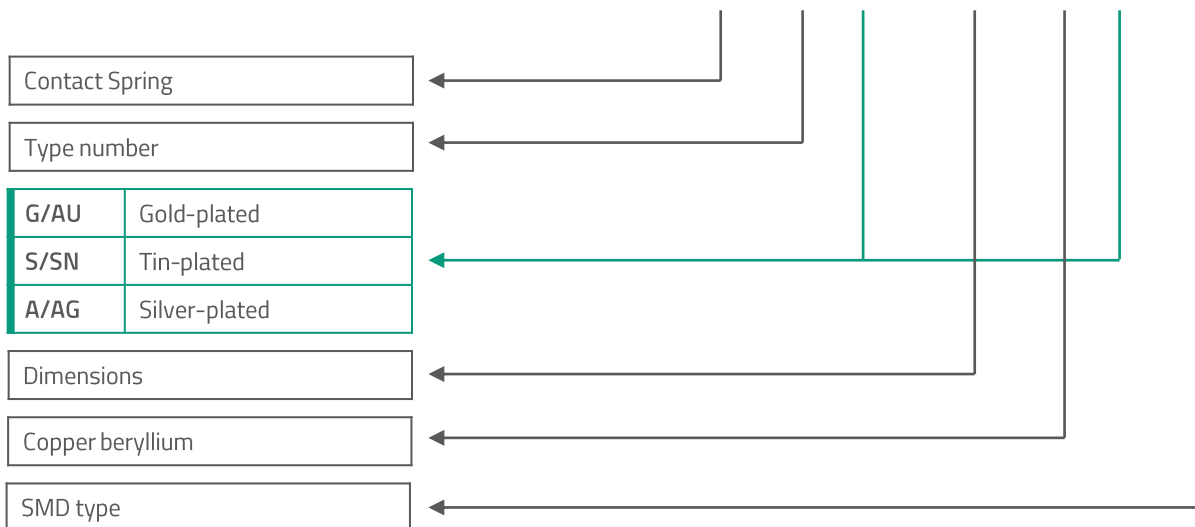


**DISCLAIMER**

This is only a recommendation based on information available to 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.

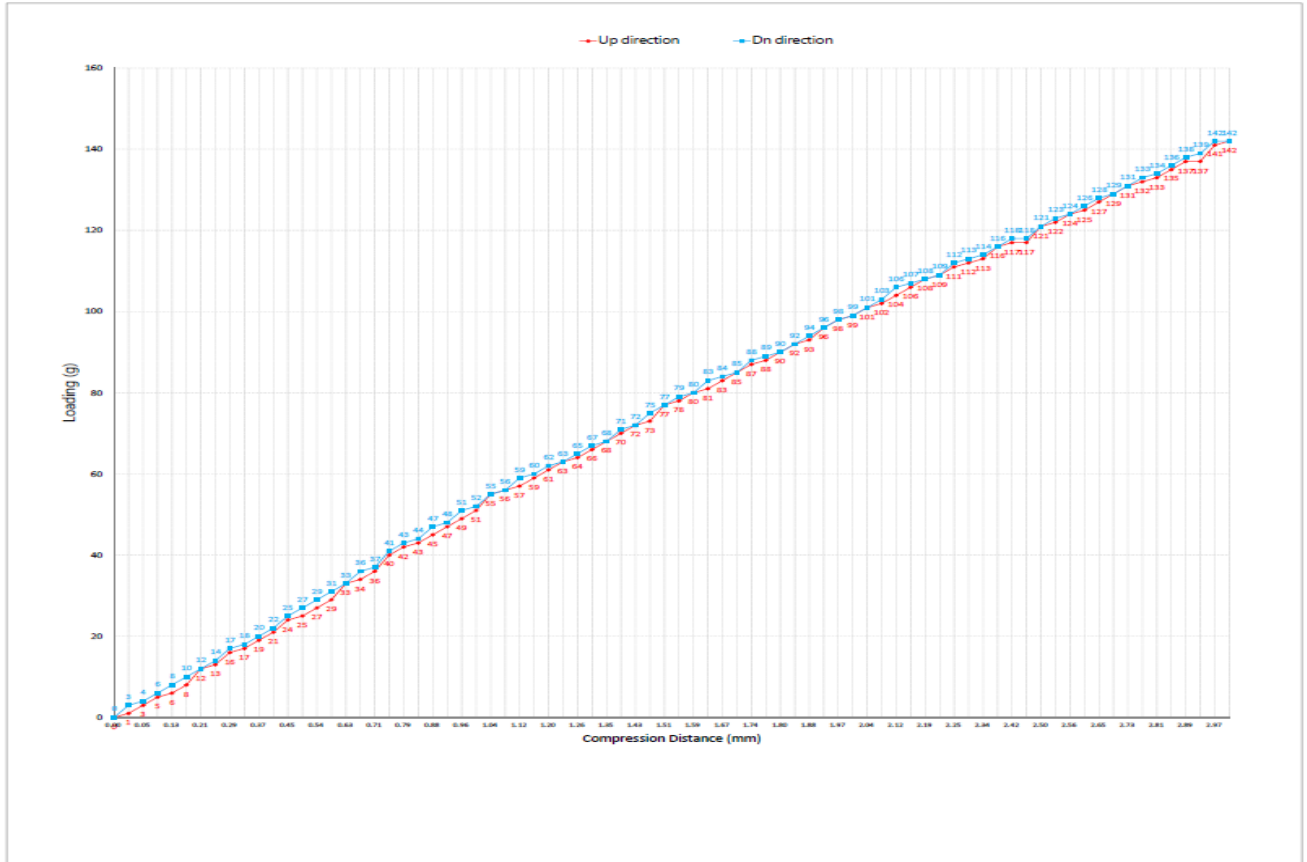
**BUILDING AN ITEM NUMBER**

**FCB-063X3060100B-YY-SMD**



**Standard options**

### FORCE DEFLECTION DIAGRAM\*

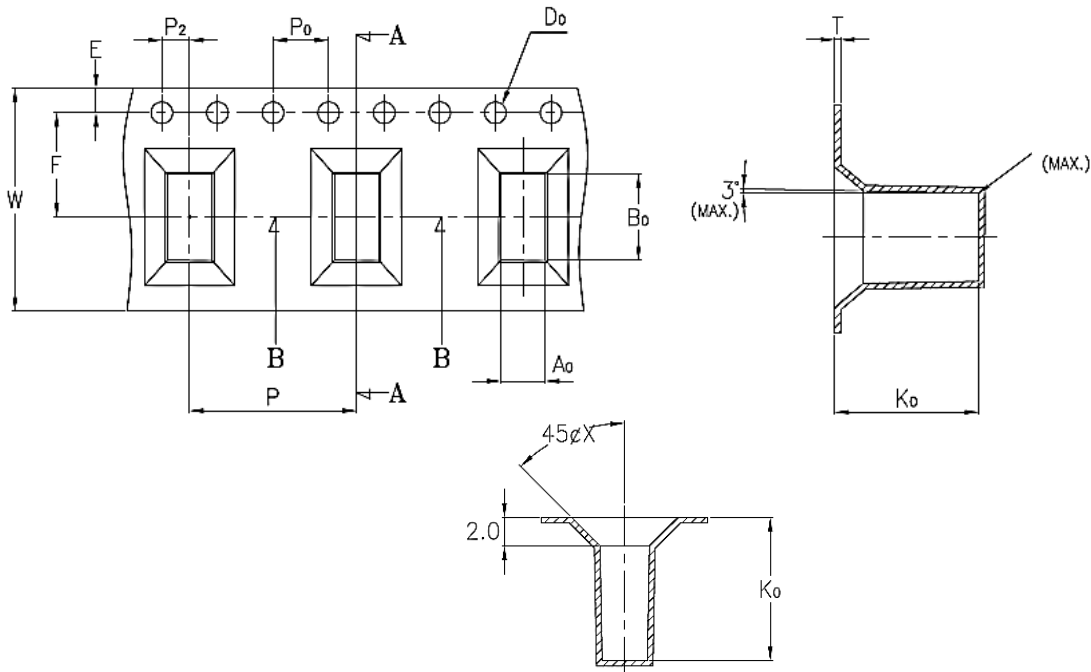


Total Compression Distance(mm)	3.00	
	Loading force(g) Down direction	Loading force(g) UP direction
0.00	0	0
0.01	3	1
0.05	4	3
0.09	6	5
0.13	8	6
0.17	10	8
0.21	12	10
0.25	14	13
0.29	17	16
0.33	18	17
0.37	20	19
0.41	22	21
0.45	25	24
0.50	27	25
0.54	29	27
0.58	31	29
0.63	33	33
0.67	36	34
0.71	37	36
0.75	41	40
0.79	43	42
0.84	44	43
0.88	47	45
0.92	48	47
0.96	51	49
1.00	52	51
1.04	55	55
1.08	56	56
1.12	59	57
1.16	60	59
1.20	63	61
1.24	63	63
1.26	65	64
1.31	67	66
1.35	68	68
1.39	71	70
1.43	72	72
1.47	75	73

Total Compression Distance(mm)	3.00	
	Loading force(g) Down direction	Loading force(g) UP direction
1.51	77	77
1.55	79	78
1.59	80	80
1.63	83	81
1.67	84	83
1.69	85	85
1.74	88	87
1.76	89	88
1.80	90	90
1.84	92	92
1.88	94	93
1.92	96	96
1.97	98	98
1.99	99	99
2.04	101	101
2.08	103	102
2.12	106	104
2.14	107	106
2.19	108	108
2.21	109	109
2.25	112	111
2.30	113	112
2.34	114	113
2.38	116	116
2.42	118	117
2.46	118	117
2.50	121	121
2.54	123	122
2.56	124	124
2.61	126	125
2.65	128	127
2.69	129	129
2.73	131	131
2.77	133	132
2.81	134	133
2.85	136	135
2.89	138	137
2.93	139	137
2.97	142	141
3.00	142	142

**NOTE** | \* Only valid for gold-plated version

**PACKING SPECIFICATION – TAPE AND REEL (mm)**



	W	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	P	F	E	D	P <sub>0</sub>	P <sub>2</sub>	T
	16,00	3,20	6,20	10,10	12,00	7,50	1,75	∅ 1,50	4,00	2,00	0,50
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.
- A<sub>0</sub> and B<sub>0</sub> measured on a plane 0,3 mm above the bottom of the pocket.
- K<sub>0</sub> 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 non anti-static polystyrene.
- Component load per 13" reel: 500 pcs.