

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.

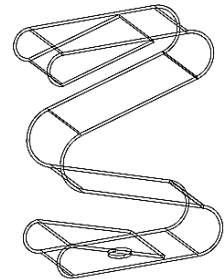
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

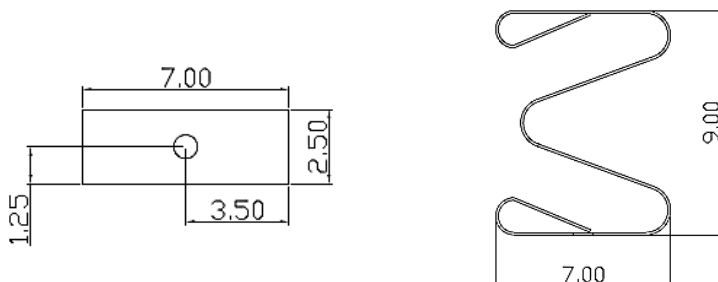


## PRODUCT SPECIFICATIONS

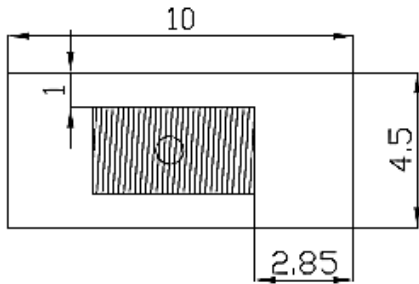
PROPERTY		VALUE / TOLERANCE
Thickness		0,1 mm
Width		2,5 mm ± 0,2
Length		7,0 mm ± 0,2
Height		9,0 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



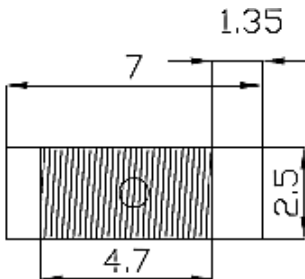
## DIMENSIONS (mm)



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



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

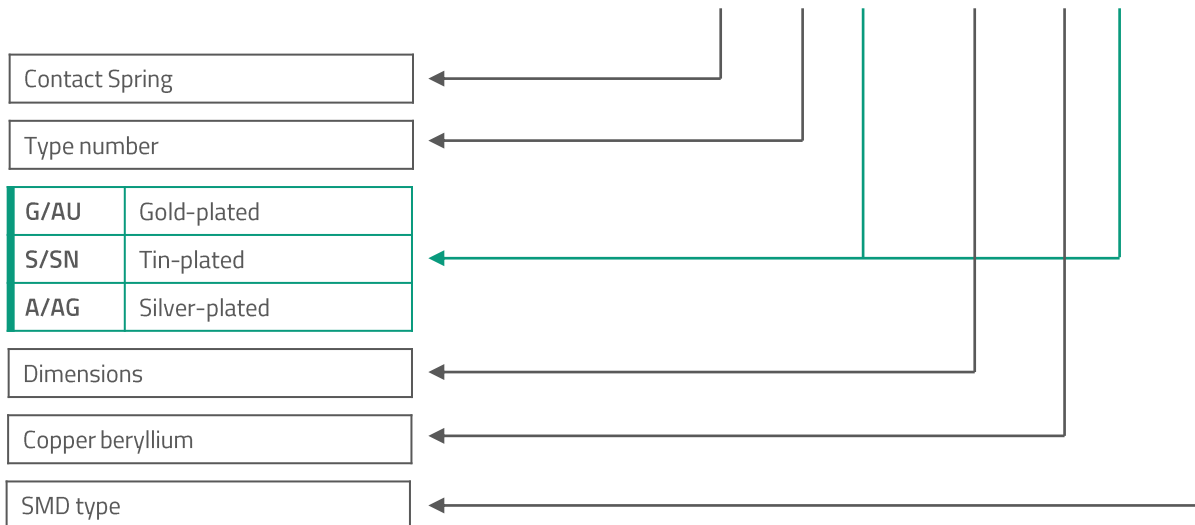


**DISCLAIMER**

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.

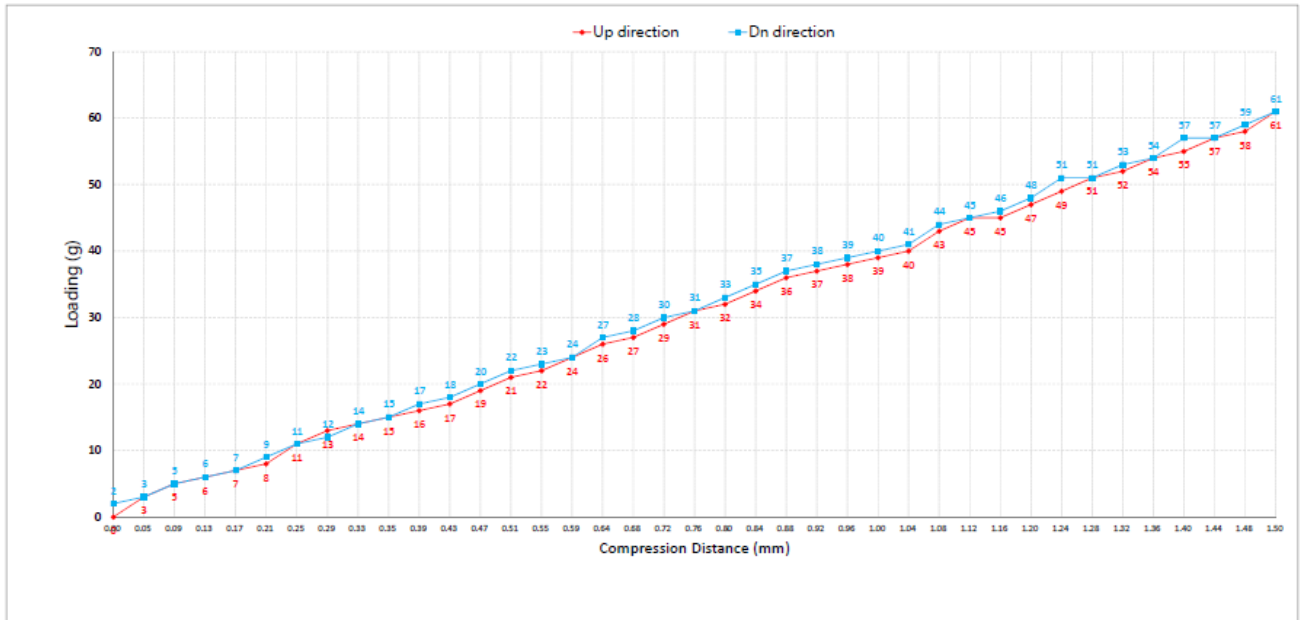
**BUILDING AN ITEM NUMBER**

**FCB-063X2570090B-YY-SMD**



**Standard options**

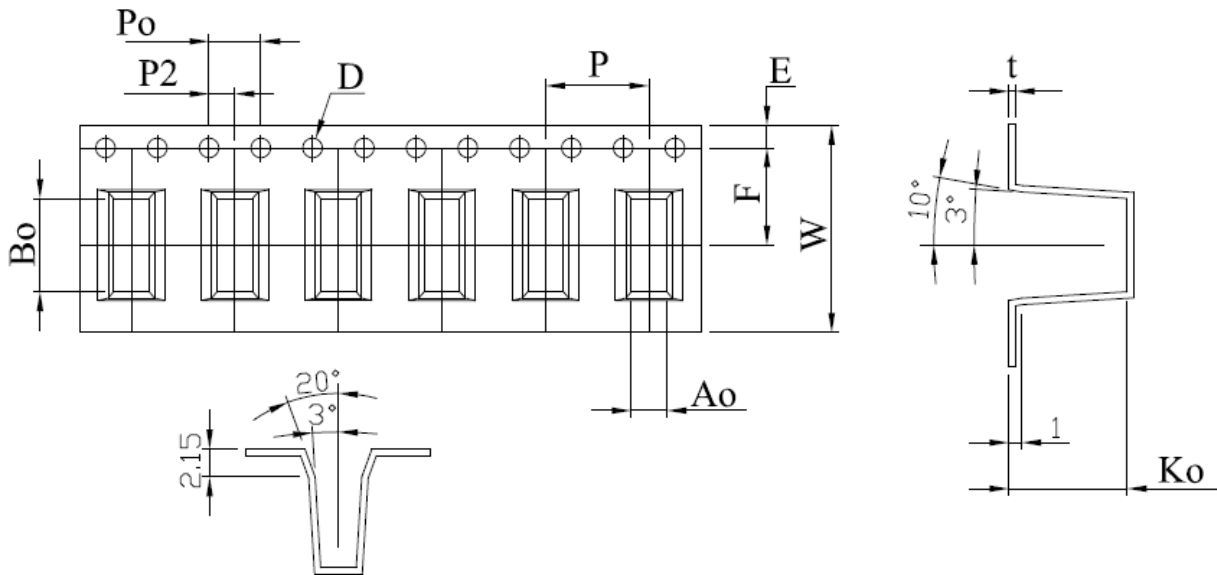
**FORCE DEFLECTION DIAGRAM\***



Total Compression Distance(mm)	1.50	
	Loading force(g)	Loading force(g)
	Down direction	UP direction
0.00	1	0
0.05	3	3
0.09	5	5
0.13	6	6
0.17	7	7
0.21	9	8
0.25	11	11
0.29	12	13
0.33	14	14
0.35	15	15
0.39	17	16
0.43	18	17
0.47	20	19
0.51	22	21
0.55	23	22
0.59	24	24
0.64	27	26
0.68	28	27
0.72	30	29
0.76	31	31
0.80	33	32
0.84	35	34
0.88	37	36
0.92	38	37
0.96	39	38
1.00	40	39
1.04	41	40
1.08	44	43
1.12	45	45
1.16	46	45
1.20	48	47
1.24	51	49
1.28	51	51
1.32	53	52
1.36	54	54
1.40	57	55
1.44	57	57
1.48	59	58
1.50	61	61

**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	2,75	7,20	9,15	8,00	7,50	1,75	∅ 1,50	4,00	2,00	0,50
Tolerance	± 0,30	± 0,10	± 0,10	± 0,10	± 0,10	± 0,05	± 0,10	+ 0,10 - 0,00	± 0,10	± 0,05	± 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: 800 pcs (before 20 after 50 pcs).