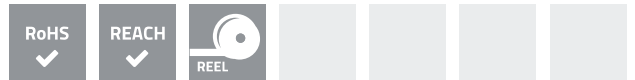


SMD contact springs are ideal for automatic assembly on printed circuit boards. They are soldered by the standard reflow-soldering process.

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

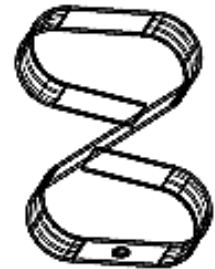
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

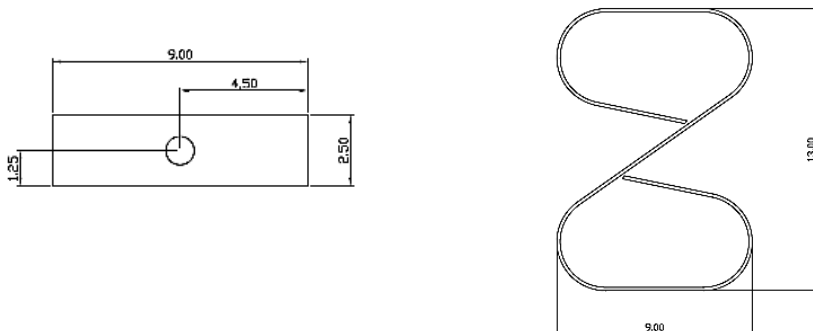


PRODUCT SPECIFICATIONS

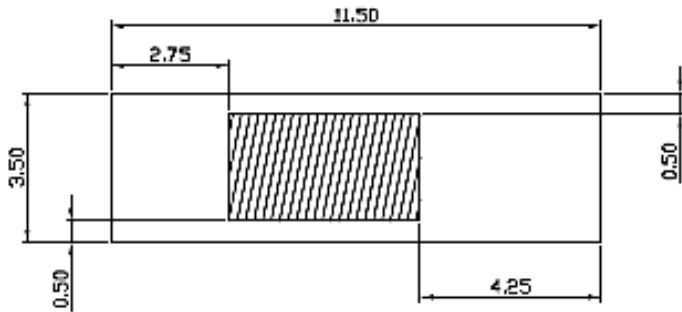
PROPERTY		VALUE / TOLERANCE
Thickness		0,15 mm
Width		2,50 mm ± 0,2
Length		9,00 mm ± 0,2
Height		13,00 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer Ni Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



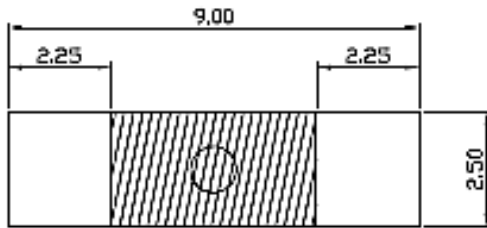
DIMENSIONS (mm)



RECOMMENDED RESERVED AREA ON THE PCB (mm)



RECOMMENDED PAD FOR THE PCB (mm)

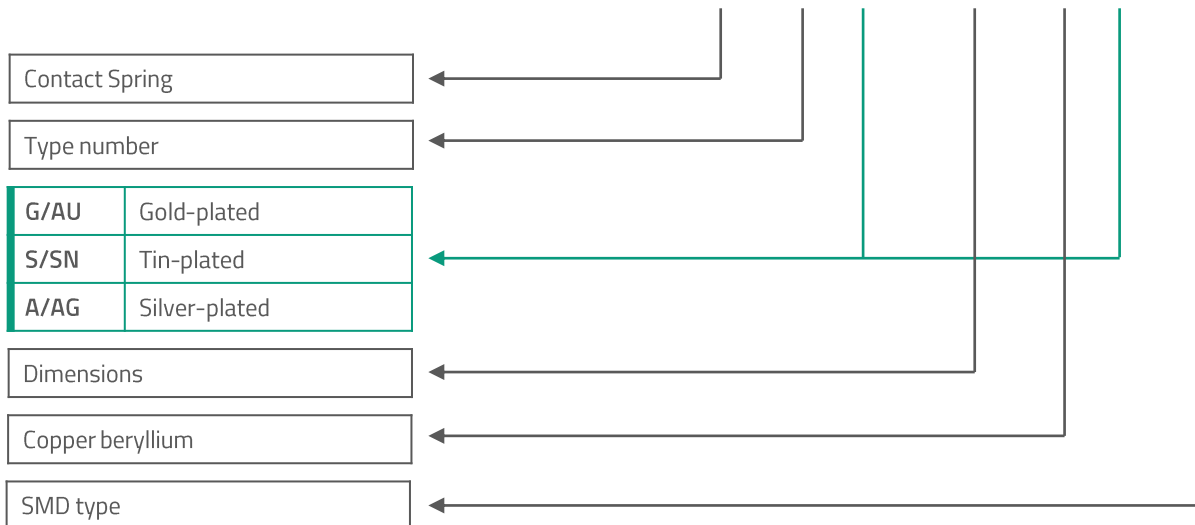


DISCLAIMER

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.

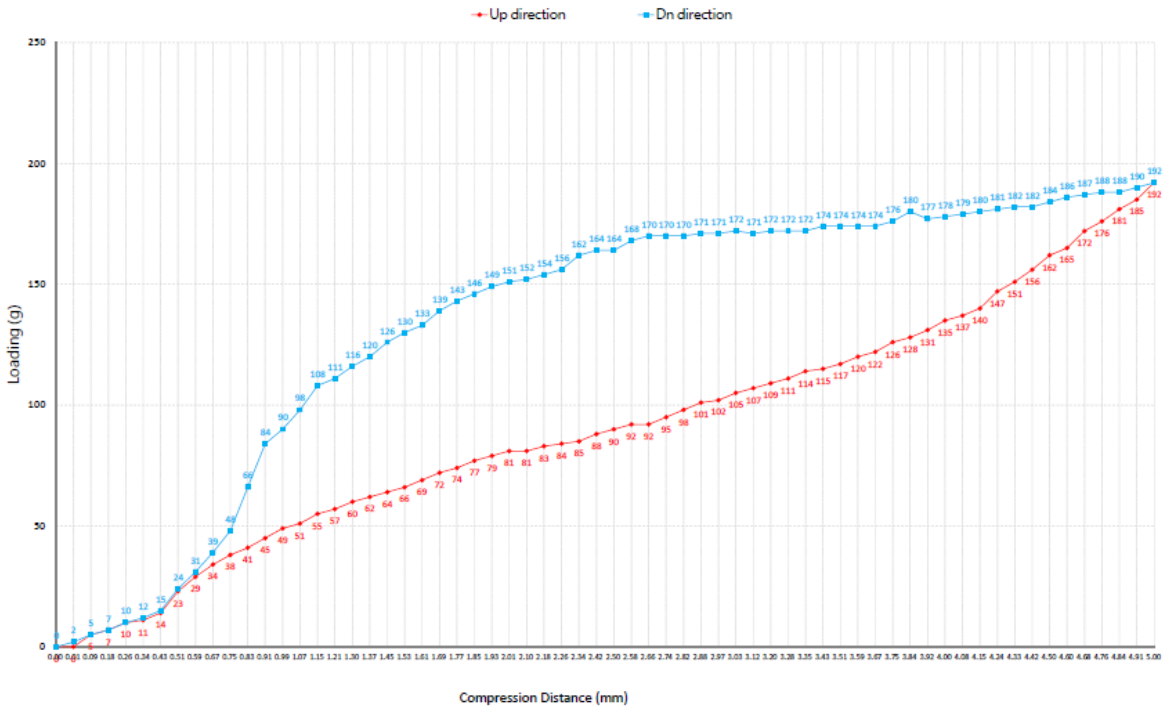
BUILDING AN ITEM NUMBER

FCB-158X2590130B-YY-SMD



Standard options

FORCE DEFLECTION DIAGRAM*

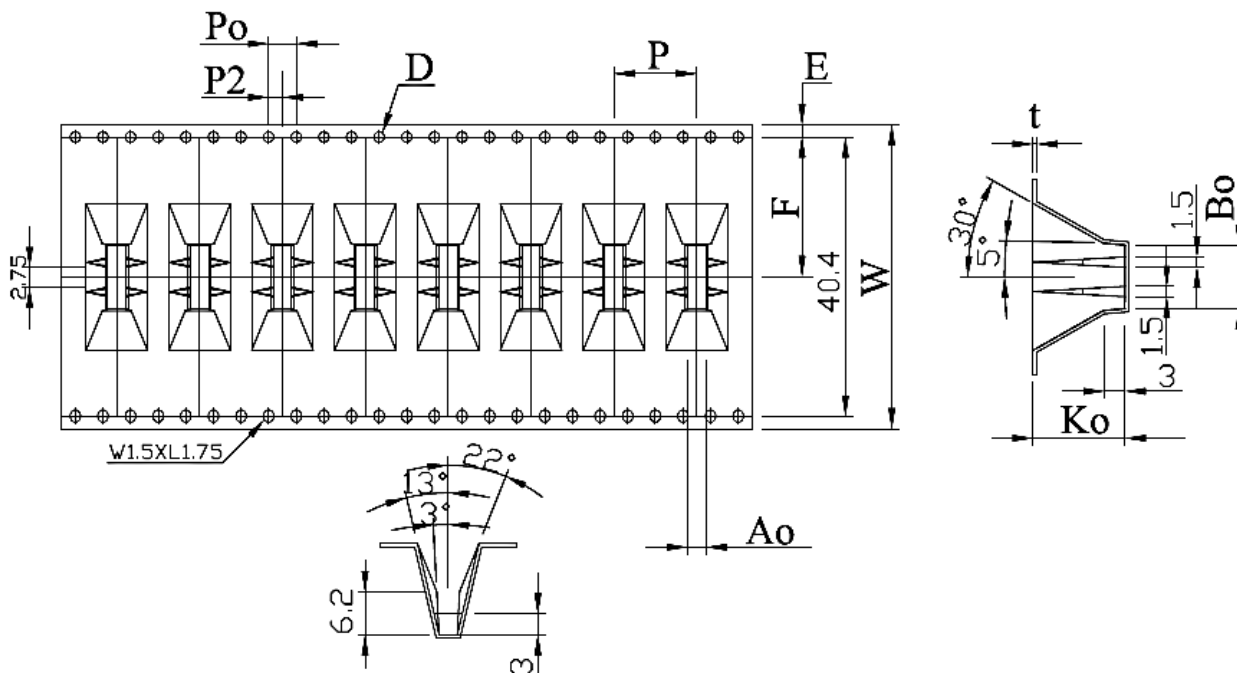


Total Compression Distance(mm)	5.00	
	Loading force(g) Down direction	Loading force(g) UP direction
0	0	0
0.01	2	5
0.05	10	15
0.10	20	30
0.15	30	45
0.20	40	60
0.25	50	75
0.30	60	90
0.35	70	105
0.40	80	120
0.45	90	135
0.51	24	23
0.59	31	29
0.67	39	34
0.75	48	38
0.80	66	41
0.91	84	45
0.99	90	49
1.07	98	51
1.15	108	55
1.21	111	57
1.3	116	60
1.37	120	62
1.45	126	64
1.53	130	66
1.61	133	69
1.69	139	72
1.77	143	74
1.85	146	77
1.93	149	79
2.01	151	81
2.1	152	81
2.18	154	83
2.26	156	84
2.34	162	85
2.42	164	86
2.5	164	90
2.58	168	92

Total Compression Distance(mm)	5.00	
	Loading force(g) Down direction	Loading force(g) UP direction
2.66	170	92
2.74	170	95
2.82	170	98
2.88	171	101
2.97	171	102
3.03	172	105
3.12	171	107
3.2	172	109
3.28	172	111
3.33	172	114
3.43	174	115
3.51	174	117
3.59	174	120
3.67	174	122
3.75	176	126
3.84	180	128
3.92	177	131
4	178	135
4.08	179	137
4.15	180	140
4.24	181	147
4.33	182	151
4.42	182	156
4.5	184	162
4.6	186	165
4.68	187	172
4.76	188	176
4.84	188	181
4.91	190	185
5	192	192

NOTE | * Only valid for gold-plated version

PACKING SPECIFICATION – TAPE AND REEL (mm)



	W	A ₀	B ₀	K ₀	P	F	E	D	P ₀	P ₂	T
	44,00	2,65	9,20	13,30	12,00	20,20	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.
- 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 non anti-static polystyrene.
- Component load per 13" reel: 300 pcs (before 15 after 30 pcs).

Modifications and errors excepted. The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verifications and testings to determine the suitability for their own particular purpose of any information or products referred to herein.