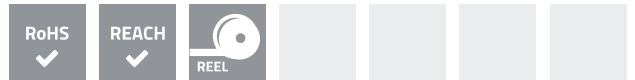


SMD contact springs are ideal for automatic assembly on printed circuit boards. They are soldered by the standard reflow-soldering process.

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

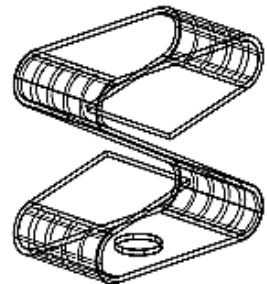
As standard, SMD springs are gold-plated (AU). They can be supplied in a wide range of dimensions and shapes.

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

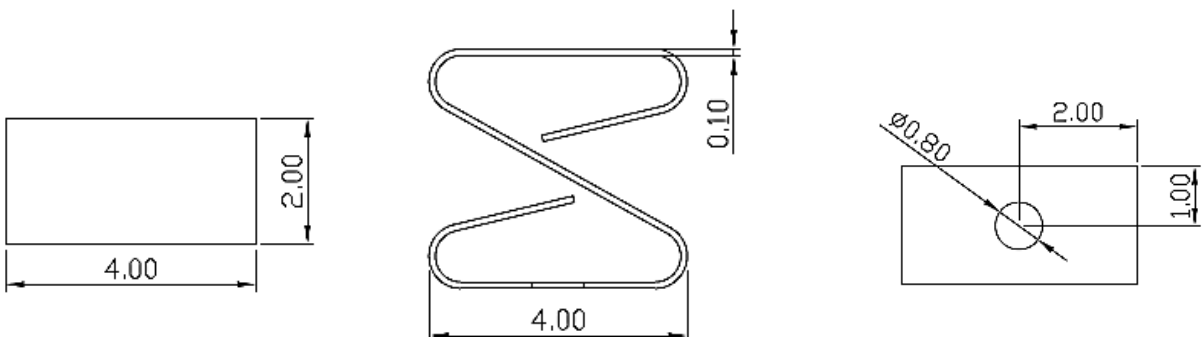


PRODUCT SPECIFICATIONS

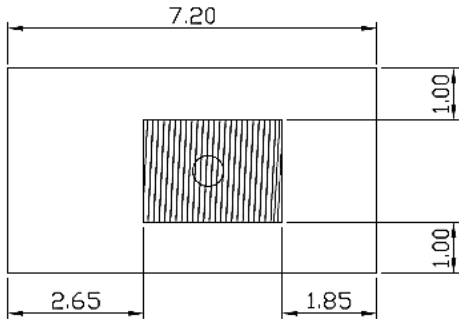
PROPERTY		VALUE / TOLERANCE
Thickness		0,1 mm
Width		2,0 mm ± 0,2
Length		4,0 mm ± 0,2
Height		3,7 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer Ni Outer layer AU	1µm – 2µm 0,025µm – 0,075µm



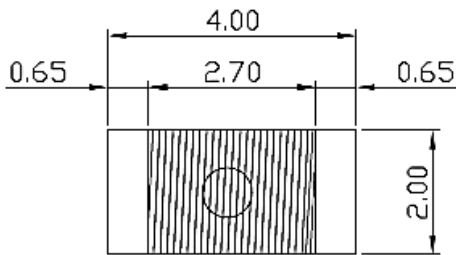
DIMENSIONS (mm)



RECOMMENDED RESERVED AREA ON THE PCB (mm)



RECOMMENDED PAD FOR THE PCB (mm)



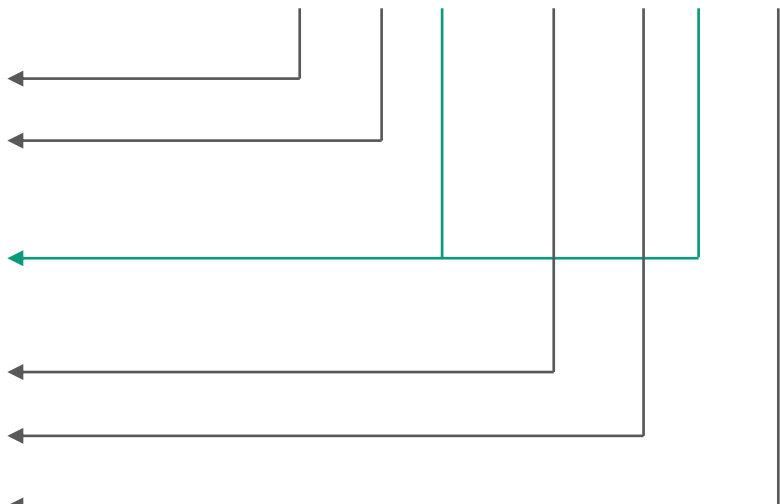
DISCLAIMER

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

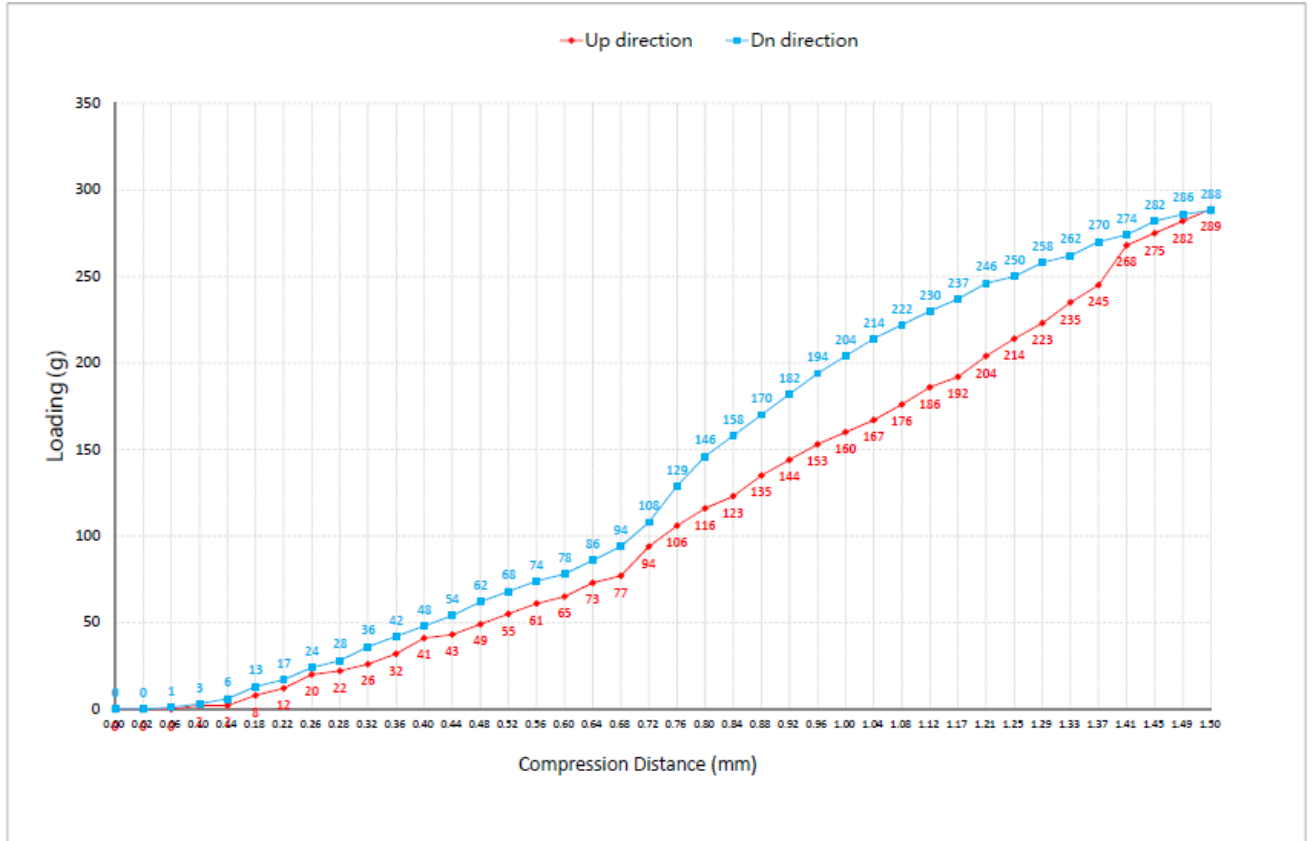
FCB-158X2040037B-YY-SMD

Contact Spring	
Type number	
G/AU	Gold-plated
S/SN	Tin-plated
A/AG	Silver-plated
Dimensions	
Copper beryllium	
SMD type	



Standard options

FORCE DEFLECTION DIAGRAM*

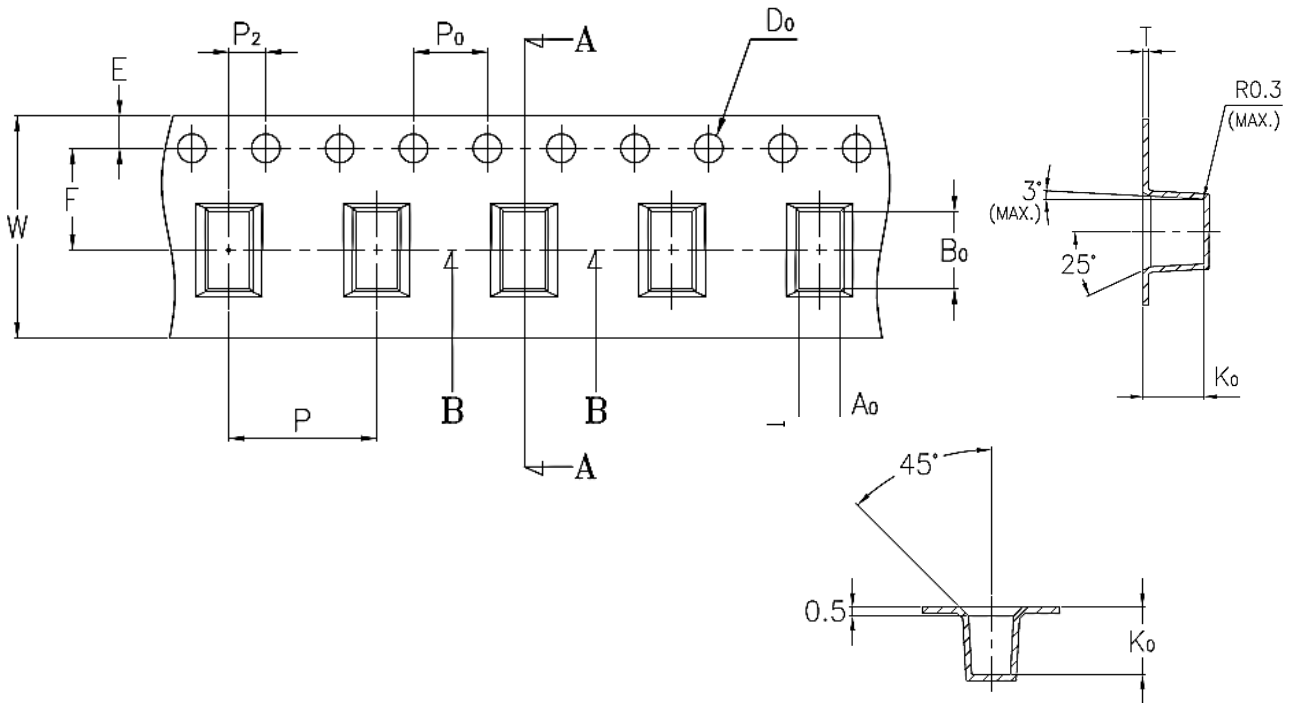


Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g)	Loading force(g)
	Down direction	UP direction
0.00	0	0
0.02	0	0
0.06	1	0
0.10	3	2
0.14	6	2
0.18	13	8
0.22	17	12
0.26	24	20
0.28	28	22
0.32	36	26
0.36	42	32
0.40	48	41
0.44	54	43
0.48	62	49
0.52	68	55
0.56	74	61
0.60	78	65
0.64	86	73
0.68	94	77
0.72	108	94
0.76	129	106

Total Compression Distance(mm)	1.50	
Displacement (mm)	Loading force(g)	Loading force(g)
	Down direction	UP direction
0.80	146	116
0.84	158	123
0.88	170	135
0.92	182	144
0.96	194	153
1.00	204	160
1.04	214	167
1.08	222	176
1.12	230	186
1.17	237	192
1.21	246	204
1.25	250	214
1.29	258	223
1.33	262	235
1.37	270	245
1.41	274	268
1.45	282	275
1.49	286	282
1.50	288	289

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
	12,00	2,25	4,20	3,90	8,00	5,50	1,75	∅ 1,50	4,00	2,00	0,35
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.
- 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: 2.000 pcs (before 20 after 49 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.