SMD CONTACT SPRINGS
FCB-10CX2540060B-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.

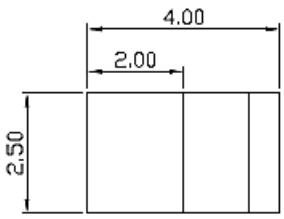
- Ideal for automatic assembly
- Standard basíc material: CuBe
- Standard plating: AU
- Available in different dimensions and types
- Almost unlimited working life

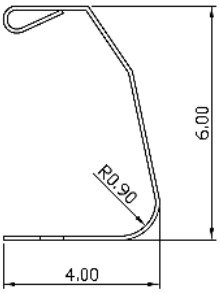
RoHS ✓ REACH ✓ REEL

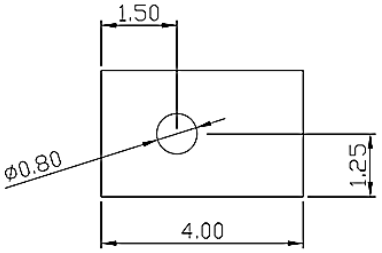
PRODUCT SPECIFICATIONS

PROPERTY		VALUE / TOLERANCE
Thickness		0,1 mm
Width		2,5 mm ± 0,2
Length		4,0 mm ± 0,2
Height		6,0 mm ± 0,2
Basic material		Copper beryllium (CuBe)
Plating	Barrier layer NI Outer layer AU	1µm – 2µm 0,025µm – 0,075µm

DIMENSIONS (mm)

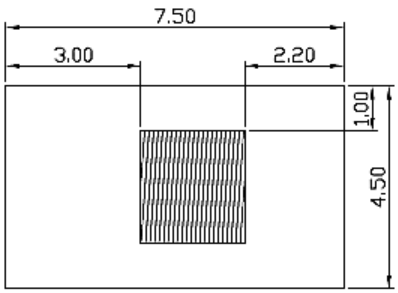




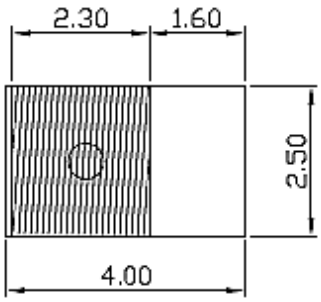


SMD CONTACT SPRINGS
FCB-10CX2540060B-YY-SMD

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.

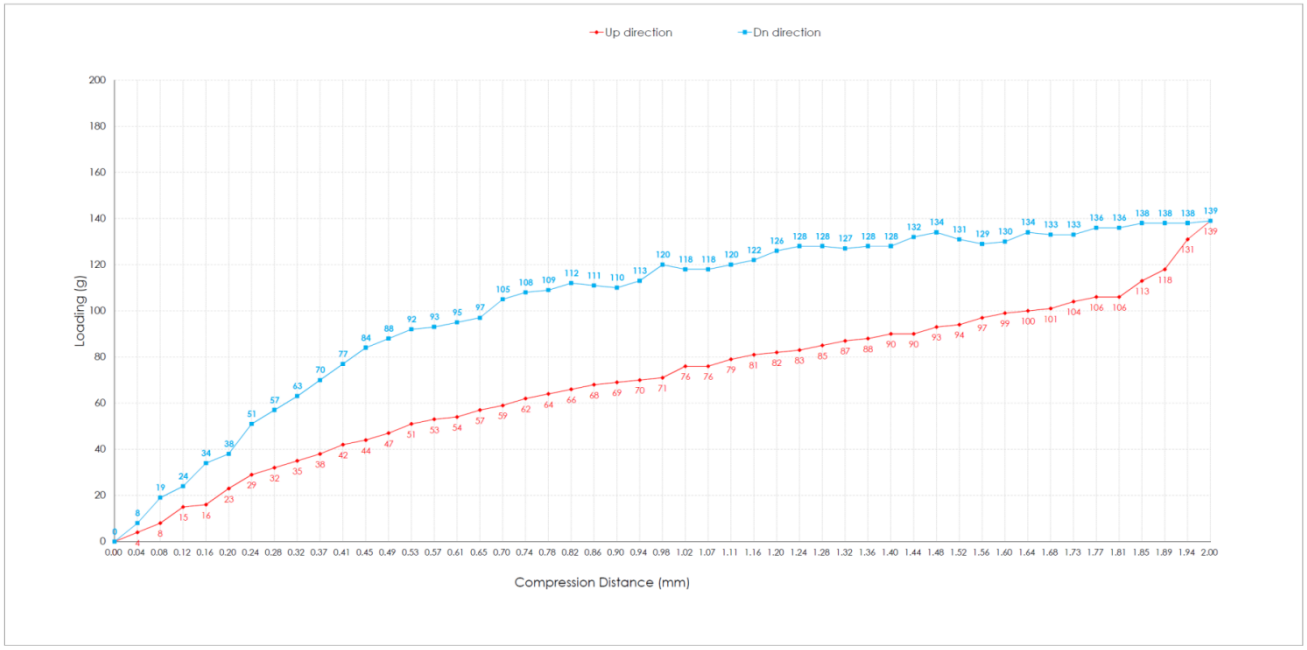
BUILDING AN ITEM NUMBER

FCB-10CX2540060B-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*

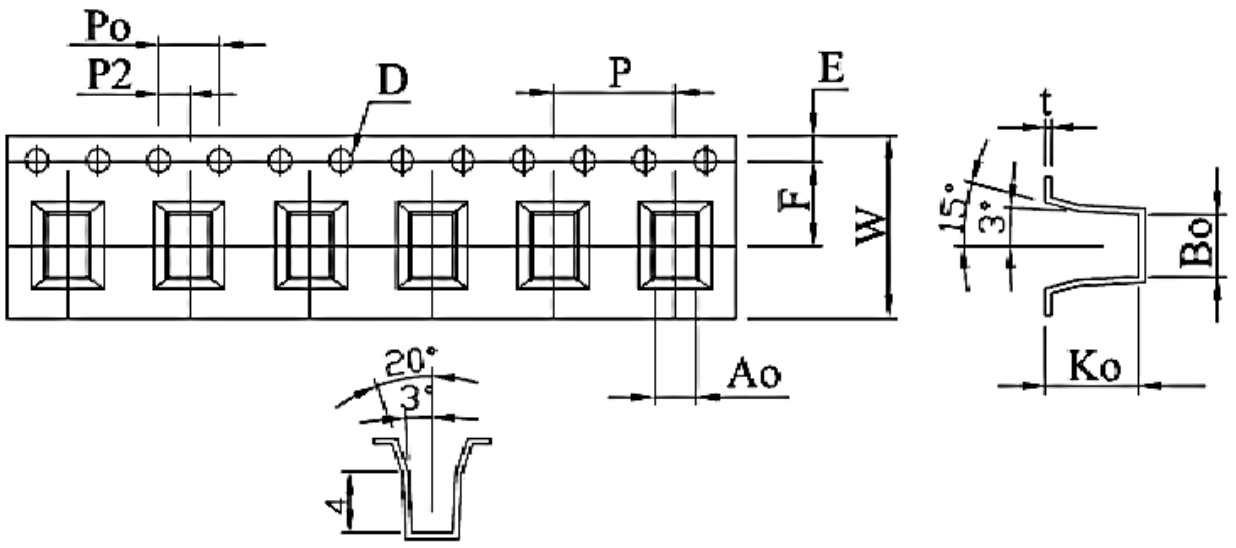


Total Compression Distance(mm)	2.00	
Displacement (mm)	Loading force(g) Down direction	Loading force(g) UP direction
0.00	0	0
0.04	8	4
0.08	19	8
0.12	24	15
0.16	34	16
0.20	38	23
0.24	51	29
0.28	57	32
0.32	63	35
0.37	70	38
0.41	77	42
0.45	84	44
0.49	88	47
0.53	92	51
0.57	93	53
0.61	95	54
0.65	97	57
0.70	105	59
0.74	108	62
0.78	109	64
0.82	112	66
0.86	111	68
0.90	110	69
0.94	113	70
0.98	120	71
1.02	118	76
1.07	118	76
1.11	120	79
1.16	122	81
1.20	126	82
1.24	128	83
1.28	128	85
1.32	127	87
1.36	128	88
1.40	128	90
1.44	132	90
1.48	134	93
1.52	131	94
1.56	129	97
1.60	130	99
1.64	134	100
1.68	133	101
1.73	133	104
1.77	136	106
1.81	136	106
1.85	138	113
1.89	138	118
1.94	138	131
2.00	139	139

NOTE | * Only valid for gold-plated version

SMD CONTACT SPRINGS
FCB-10CX2540060B-YY-SMD

PACKING SPECIFICATION – TAPE AND REEL (mm)



	W	A_0	B_0	K_0	P	F	E	D	P_0	P_2	T
	12,00	2,70	4,10	6,20	8,00	5,50	1,75	Ø 1,50	4,00	2,00	0,40
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: 1.200 pcs (before 20 after 50 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.