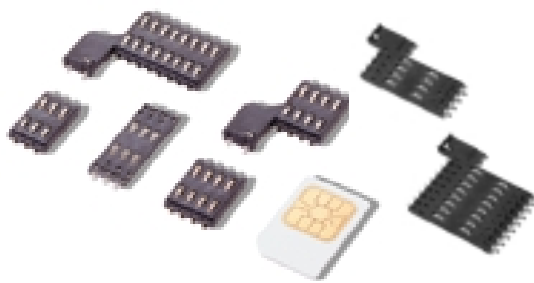


CCM04 MKII



The CCM04 without card guidance is used where space is at a premium and the card guidance can be built around the connector (rather than provided by the connector itself).

The CCM04 low profile without card guidance is dedicated to applications where the overall height of the connector is paramount. A range of low profile CCM04 connectors are available with 1.25 mm thick moldings.

The wide choice of contact configurations and molding heights suit a broad range of applications.

Features

- Available in a variety of molding heights from 1.25 mm to 5 mm.
- The integrated card detection switch (optional) is sealed against dust and grit.
- By using an inlay finish in the contact area, the life of the precious metal is extended by more than 10 times that of standard gold plating.
- The height of the contact above the insulator is 0.75 mm, so allowing a wider tolerance for the card entry slot.
- The contact area is spooned to reduce the risk of accidental (or deliberate) damage, and to optimize the electrical connection with the card.
- The tip of the contact is protected by the molding so that it cannot catch on the card as the card is being inserted.
- The contact design ensures a consistent and reliable contact force over the life of the connector.
- Robustly formed printed circuit tails are well protected by the insulator body: a coplanarity of ± 0.05 mm is guaranteed.
- The moldings are made from high temperature thermoplastic suited for infrared and convection soldering processes.
- With tape and reel packaging as standard, the connectors are designed to be automatically picked & placed.

Construction	
Contacts	Copper alloy
Plating	Contact area : Gold alloy inlay Terminals : Tin lead (2 μ min)
Moldings	High temp. thermoplastic UL 94V-0 rated
Mechanical data	
Number of Contacts	6, 8 or 16
Mechanical life	50,000 cycles min
Durability of inlay	5,000 cycles min (see note 1)
Contact force	0.25 N min / 0.5 N max
Card detection switch actuation force	0.8 N max for actuation (end travel switch actuates when card is 0.9 mm from card stop) 1.8 N max for complete depression
Vibration 50m/s ²	Frequency 10 to 500 Hz. Acceleration Duration 6 hours - amplitude 0.35 mm Max electrical discontinuity 1 μ s
Shock	Peak value 500 m/s ² - Duration 11 ms 3 shocks in each direction of each axis Max electrical discontinuity 1 μ s
Electrical data	
Insulation resistance	1,000 M Ω min
Contact resistance max	100 m Ω max
Switching current	10 μ A min / 1 A max
Dielectric strength	750 Vrms min
Card detection switch	Normally open (closes on card insertion)
Switch contact resistance	100m Ω max
Dielectric switch contacts	250 Vrms min
Maximum switch power	0.2 VA
Environmental data	
Operating temperature	-40°C to +85°C
Soldering temperature	Temperature/time profile acc. to CECC00802 para. 6.1, Fig. 3 with peak temperature 250°C
Damp heat	IEC 512 test number 11c (10 days)
Salt mist	IEC 512 test number 11f (96 hours)
Card detection switch	Sealed IP 54 For CCM04 1889 & 1905 Sealed against dust for other versions

Note 1: Inlay (precious metal) rating is based on a very abrasive card being used and is intended to represent worst case.

CCM04 MKII

Ordering code					
		Without Switch		With Switch	
Molding Height	SMT Tails	2 x 3 contacts	2 x 4 contacts	2 x 4 contacts	2 x 8 contacts
1.25 mm	Standard	CCM04-1801	CCM04-1814	CCM04-1889	CCM04-1905
1.25 mm	Straight	CCM04-1800*	CCM04-1813*	CCM04-1888*	
2.00 mm	Standard	CCM04-5004**	CCM04-1415*		
2.75 mm	Straight	CCM04-1200	CCM04-1217*	CCM04-1316	CCM04-1333*
2.75 mm	Standard	CCM04-1201	CCM04-1218	CCM04-1317	CCM04-1334
3.50 mm	Standard	CCM04-1202	CCM04-1219*	CCM04-1318	
4.25 mm	Standard	CCM04-1203*	CCM04-1220	CCM04-1319*	
5.00 mm	Standard		CCM04-1221	CCM04-1320	

*Note: On request

**Note: Replaced by CCM04-5102 (see page 53)

Packaging

Connectors without a switch are packaged in accordance with EIA 481-2 or IEC 286-3.

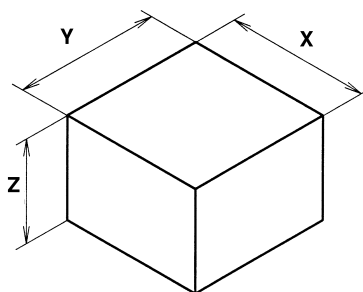
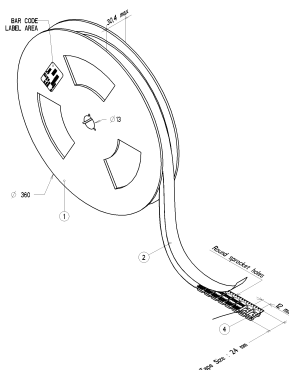
Connectors with a switch are packaged in accordance with EIA 481-3 or IEC 286-3

Standard packaging is in tape and reel. A modification code is added to the part number that indicates reel packaging and the number of components per reel (which varies according to the molding height).

Example: A CCM04 with 8 contacts plus switch and a molding height of 3.50 mm has a part number CCM04-1318-R751.

Molding Height	SMT Tails	Without Switch		With Switch		N° reels per box
		2 x 3 contacts	2 x 4 contacts	2 x 4 contacts	2 x 8 contacts	
1.25 mm	Standard	R182 (1800pcs)	R132 (1300pcs)	R102 (1000pcs)	R651 (650pcs)	5
1.25 mm	Straight	R182 (1800pcs)	R132 (1300pcs)	R102 (1000pcs)		5
2.00 mm	Standard	R122 (1200pcs)	R901 (900pcs)			5
2.75 mm	Straight	R122 (1200pcs)	R901 (900pcs)	R801 (800pcs)	R451 (450pcs)	5
2.75 mm	Standard	R122 (1200pcs)	R901 (900pcs)	R801 (800pcs)	R451 (450pcs)	5
3.50 mm	Standard	R112 (1100pcs)	R801 (800pcs)	R751 (750pcs)		5
4.25 mm	Standard	R951 (950pcs)	R701 (700pcs)	R651 (650pcs)		5
5.00 mm	Standard		R651 (650pcs)	R601 (600pcs)		5

R = Reel



Reel Diameter	Reel Width	X	Y	Z
360 mm	24.4 mm	344 mm	350 mm	152

[illegible]

RECOMMENDED PCB BOARD LAYOUT
(Component side)

Plastic outline
Contact foot area
0.8 x 1
Pad

15

23.2

5.5

2.5

5.5

15

0.8

C5

C6

C7

C1

C2

C3

13

0.2

Prohibited area

3.81

3.81

7.79

25.5

ISO 7816-2 & EN1 1375-1 & GSM-II

CCM04-1814 2 x 4 contacts

The drawing includes three main views:

- Top View:** Shows the overall dimensions of the rectangular component. The total width is 23.6. The central area contains four rows of contacts, each row having two contacts. A "Date Code area" is indicated at the top center, and a "Pick and place area" with a diameter of $\varnothing 3.5$ is shown at the bottom center. Contact pitch dimensions are specified as 2.54 between columns and 1.78 between rows.
- Side View:** Illustrates the profile of the component. It shows a flat top surface with a thickness of 0.25 ± 0.05. The base has a width of 25.5 ± 0.2. Two contact points are visible, each with a radius of 3.81. A 30° angle is indicated for the sloped sides.
- DETAIL A:** A magnified view of the contact tip, labeled "Scale 10". It shows a rounded contact tip with a radius of 0.8 and a total height of 0.63.

CCM04-1814 PCB layout

RECOMMENDED PCB LAYOUT
(Component side)

Diagram illustrating the recommended PCB layout for the CCM04-1814 component, showing dimensions and component placement.

Key dimensions and features:

- Overall width: 23.2
- Overall height: 13
- Pin pitch (vertical): 2.54
- Pin pitch (horizontal): 2.54
- Pin 1 location: 15
- Pin 2 location: 15
- Pin 3 location: 15
- Pin 4 location: 15
- Pin 5 location: 15
- Pin 6 location: 15
- Pin 7 location: 15
- Pin 8 location: 15
- Pin 9 location: 15
- Pin 10 location: 15
- Pin 11 location: 15
- Pin 12 location: 15
- Pin 13 location: 15
- Pin 14 location: 15
- Pin 15 location: 15
- Pin 16 location: 15
- Pin 17 location: 15
- Pin 18 location: 15
- Pin 19 location: 15
- Pin 20 location: 15
- Pin 21 location: 15
- Pin 22 location: 15
- Pin 23 location: 15
- Pin 24 location: 15
- Pin 25 location: 15
- Pin 26 location: 15
- Pin 27 location: 15
- Pin 28 location: 15
- Pin 29 location: 15
- Pin 30 location: 15
- Pin 31 location: 15
- Pin 32 location: 15
- Pin 33 location: 15
- Pin 34 location: 15
- Pin 35 location: 15
- Pin 36 location: 15
- Pin 37 location: 15
- Pin 38 location: 15
- Pin 39 location: 15
- Pin 40 location: 15
- Pin 41 location: 15
- Pin 42 location: 15
- Pin 43 location: 15
- Pin 44 location: 15
- Pin 45 location: 15
- Pin 46 location: 15
- Pin 47 location: 15
- Pin 48 location: 15
- Pin 49 location: 15
- Pin 50 location: 15
- Pin 51 location: 15
- Pin 52 location: 15
- Pin 53 location: 15
- Pin 54 location: 15
- Pin 55 location: 15
- Pin 56 location: 15
- Pin 57 location: 15
- Pin 58 location: 15
- Pin 59 location: 15
- Pin 60 location: 15
- Pin 61 location: 15
- Pin 62 location: 15
- Pin 63 location: 15
- Pin 64 location: 15
- Pin 65 location: 15
- Pin 66 location: 15
- Pin 67 location: 15
- Pin 68 location: 15
- Pin 69 location: 15
- Pin 70 location: 15
- Pin 71 location: 15
- Pin 72 location: 15
- Pin 73 location: 15
- Pin 74 location: 15
- Pin 75 location: 15
- Pin 76 location: 15
- Pin 77 location: 15
- Pin 78 location: 15
- Pin 79 location: 15
- Pin 80 location: 15
- Pin 81 location: 15
- Pin 82 location: 15
- Pin 83 location: 15
- Pin 84 location: 15
- Pin 85 location: 15
- Pin 86 location: 15
- Pin 87 location: 15
- Pin 88 location: 15
- Pin 89 location: 15
- Pin 90 location: 15
- Pin 91 location: 15
- Pin 92 location: 15
- Pin 93 location: 15
- Pin 94 location: 15
- Pin 95 location: 15
- Pin 96 location: 15
- Pin 97 location: 15
- Pin 98 location: 15
- Pin 99 location: 15
- Pin 100 location: 15
- Pin 101 location: 15
- Pin 102 location: 15
- Pin 103 location: 15
- Pin 104 location: 15
- Pin 105 location: 15
- Pin 106 location: 15
- Pin 107 location: 15
- Pin 108 location: 15
- Pin 109 location: 15
- Pin 110 location: 15
- Pin 111 location: 15
- Pin 112 location: 15
- Pin 113 location: 15
- Pin 114 location: 15
- Pin 115 location: 15
- Pin 116 location: 15
- Pin 117 location: 15
- Pin 118 location: 15
- Pin 119 location: 15
- Pin 120 location: 15
- Pin 121 location: 15
- Pin 122 location: 15
- Pin 123 location: 15
- Pin 124 location: 15
- Pin 125 location: 15
- Pin 126 location: 15
- Pin 127 location: 15
- Pin 128 location: 15
- Pin 129 location: 15
- Pin 130 location: 15
- Pin 131 location: 15
- Pin 132 location: 15
- Pin 133 location: 15
- Pin 134 location: 15
- Pin 135 location: 15
- Pin 136 location: 15
- Pin 137 location: 15
- Pin 138 location: 15
- Pin 139 location: 15
- Pin 140 location: 15
- Pin 141 location: 15
- Pin 142 location: 15
- Pin 143 location: 15
- Pin 144 location: 15
- Pin 145 location: 15
- Pin 146 location: 15
- Pin 147 location: 15
- Pin 148 location: 15
- Pin 149 location: 15
- Pin 150 location: 15
- Pin 151 location: 15
- Pin 152 location: 15
- Pin 153 location: 15
- Pin 154 location: 15
- Pin 155 location: 15
- Pin 156 location: 15
- Pin 157 location: 15
- Pin 158 location: 15
- Pin 159 location: 15
- Pin 160 location: 15
- Pin 161 location: 15
- Pin 162 location: 15
- Pin 163 location: 15
- Pin 164 location: 15
- Pin 165 location: 15
- Pin 166 location: 15
- Pin 167 location: 15
- Pin 168 location: 15
- Pin 169 location: 15
- Pin 170 location: 15
- Pin 171 location: 15
- Pin 172 location: 15
- Pin 173 location: 15
- Pin 174 location: 15
- Pin 175 location: 15
- Pin 176 location: 15
- Pin 177 location: 15
- Pin 178 location: 15
- Pin 179 location: 15
- Pin 180 location: 15
- Pin 181 location: 15
- Pin 182 location: 15
- Pin 183 location: 15
- Pin 184 location: 15
- Pin 185 location: 15
- Pin 186 location: 15
- Pin 187 location: 15
- Pin 188 location: 15
- Pin 189 location: 15
- Pin 190 location: 15
- Pin 191 location: 15
- Pin 192 location: 15
- Pin 193 location: 15
- Pin 194 location: 15
- Pin 195 location: 15
- Pin 196 location: 15
- Pin 197 location: 15
- Pin 198 location: 15
- Pin 199 location: 15
- Pin 200 location: 15
- Pin 201 location: 15
- Pin 202 location: 15
- Pin 203 location: 15
- Pin 204 location: 15
- Pin 205 location: 15
- Pin 206 location: 15
- Pin 207 location: 15
- Pin 208 location: 15
- Pin 209 location: 15
- Pin 210 location: 15
- Pin 211 location: 15
- Pin 212 location: 15
- Pin 213 location: 15
- Pin 214 location: 15
- Pin 215 location: 15
- Pin 216 location: 15
- Pin 217 location: 15
- Pin 218 location: 15
- Pin 219 location: 15
- Pin 220 location: 15
- Pin 221 location: 15
- Pin 222 location: 15
- Pin 223 location: 15
- Pin 224 location: 15
- Pin 225 location: 15
- Pin 226 location: 15
- Pin 227 location: 15
- Pin 228 location: 15
- Pin 229 location: 15
- Pin 230 location: 15
- Pin 231 location: 15
- Pin 232 location: 15
- Pin 233 location: 15
- Pin 234 location: 15
- Pin 235 location: 15
- Pin 236 location: 15
- Pin 237 location: 15
- Pin 238 location: 15
- Pin 239 location: 15
- Pin 240 location: 15
- Pin 241 location: 15
- Pin 242 location: 15
- Pin 243 location: 15
- Pin 244 location: 15
- Pin 245 location: 15
- Pin 246 location: 15
- Pin 247 location: 15
- Pin 248 location: 15
- Pin 249 location: 15
- Pin 250 location: 15
- Pin 251 location: 15
- Pin 252 location: 15

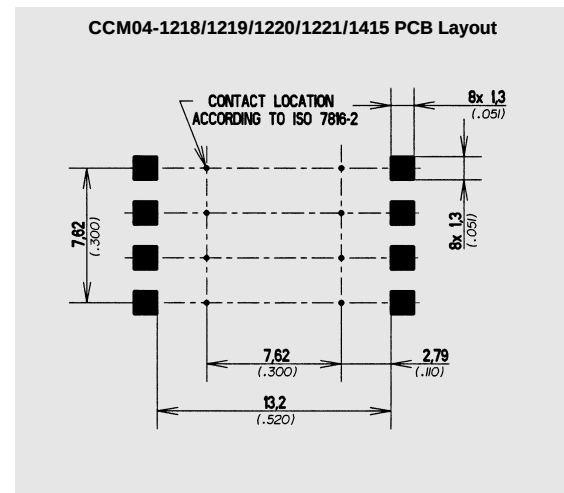
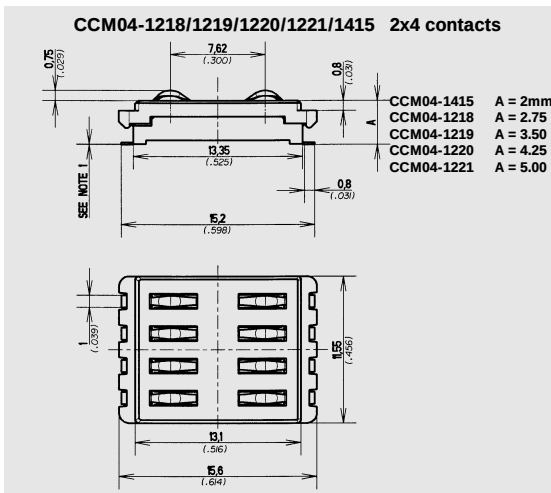
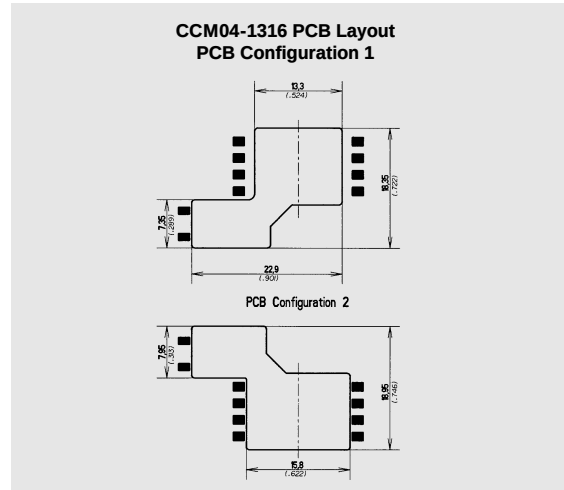
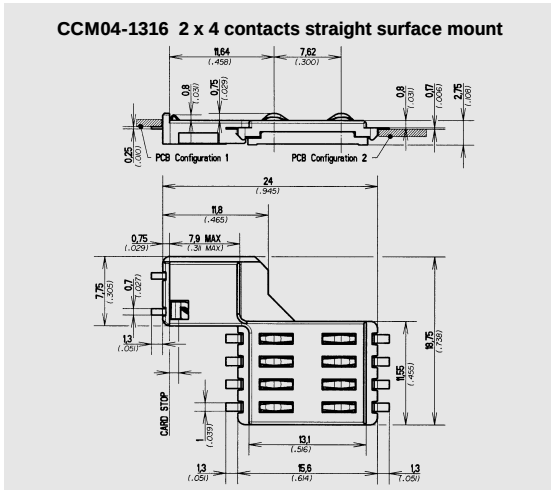
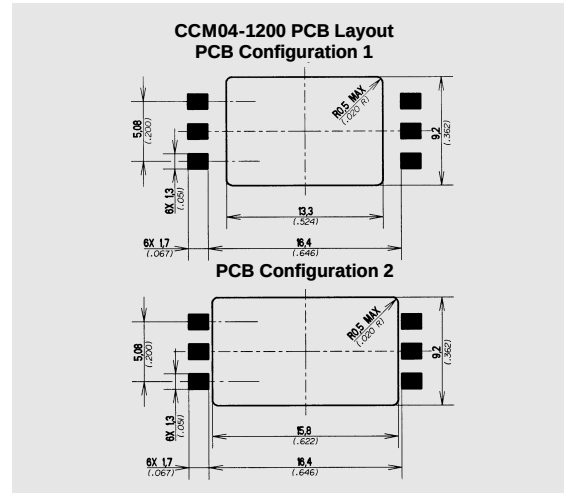
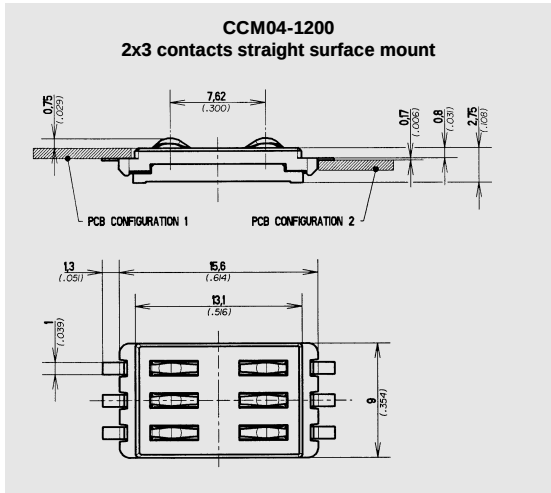
[illegible][illegible]

ITT Industries

www.ittcannon.com/ccm

CCM04 MK II

Dimensional Drawings



Dimensional Drawings

The technical drawing shows two views of the CCM04 connector. The top view includes dimensions for overall width (0.8 / (.031)), pin pitch (1.64 / (.061) and .762 / (.030)), pin diameter (0.35 / (.014)), and mounting hole diameter (0.95 / (.037)). The side view shows a height of 0.75 / (.030), a maximum pin height of 0.75 MAX / (.030 MAX), and a base thickness of 0.07 / (.003). A note indicates that the dimensions are for the CCM04-1317, CCM04-1318, CCM04-1319, and CCM04-1320 models.

Model	A =
CCM04-1317	2.75
CCM04-1318	3.50
CCM04-1319	4.25
CCM04-1320	5.00

Figure 1: Dimensions of the contact grid. The diagram shows a grid of contact points with various dimensions. Horizontal dimensions include 92 (.362) and 132 (.519). Vertical dimensions include 2x 11 (.043), 2x 17 (.067), 8x 13 (.251), and 7.62 (.300). A dimension of 4 (.157) is also shown. A note indicates 'CONTACT LOCATION ACCORDING TO ISO 7816-2'.

PCB Configuration

The diagram illustrates the PCB configuration with various dimensions and contact locations:

- Horizontal Dimensions:**
 - 92 (.362)
 - B2 (.509)
- Vertical Dimensions:**
 - 2x U₁ (.083)
 - 2x 17 (.067)
 - Rx 13 (.051)
 - 17.78 (.700)
 - 3
 - 4
 - (.08) (.037)
- Contact Locations:**
 - CONTACT LOCATION ACCORDING TO ISO 781-2
 - Rx 13 (.051)

0.75
(.029)

7.82
(1.300)

0.8
(.031)

SEE NOTE 1

13.95
(1.305)

5.2
(1.598)

0.8
(.031)

CCM04-5004*
CCM04-1201 A = 2.75
CCM04-1202 A = 3.50
CCM04-1203 A = 4.25
CCM04-1204 A = 5.00

*CCM04-5004 replaced by
CCM04-5102 (see page 53)

1
(.039)

13.1
(1.516)

5.6
(1.694)

9
(2.364)

Figure 1: Dimensions of the test specimen. The diagram shows a rectangular specimen with three vertical contact pads on the left and three on the right. Dimensions are given in inches and parentheses in millimeters. The vertical distance between contact pads is 5.08 (.200). The horizontal distance between the center of the left pads and the center of the right pads is 13.2 (.520). The horizontal distance from the center of the left pads to the center of the first contact pad on the right is 7.62 (.300). The horizontal distance from the center of the first contact pad on the right to the center of the last contact pad on the right is 2.79 (.110). The width of each contact pad is 6x.13 (.051). The text "CONTACT LOCATION ACCORDING TO ISO 7816-2" points to the center of the first contact pad on the right.



Dimensions are shown in mm
Dimensions subject to change

48

CCM04 MK III Miniature Connectors



Introducing a new range of CCM04 connectors designed to interface with either full or SIM/SAM smart cards and designed to minimize space usage on the PCB while maximizing price economy.

Features

- Available with 6 or 8 contacts.
- By using an inlay finish in the contact area, the life of the precious metal is extended by up to 10 times that of a standard gold plating.
- The contact area is spooned to reduce the risk of accidental (or deliberate) damage and to optimize the electrical connection with the card.
- The insulators, molded from high temperature thermoplastic, are suited for infrared and convection soldering processes.
- With tape and reel packaging as standard, the connectors are designed to be automatically pick and placed.
- Gold plating versions are also available.

Construction

Insulator	High temperature thermoplastic UL 94V.0
Contacts	Copper Alloy
Contact finish	Gold Alloy Inlay (Au / Ag / Pd)
PC Tail plating	Tin lead (2 μ m min) Sn / Pb

Mechanical data

Mechanical life	50,000 cycles minimum
Precious metal	5000 cycles minimum (see note 1)
Contact force	0.25N min / 0.5N max
Contact travel	0.75mm

Electrical data

Insulation resistance	1000 M Ω min
Contact resistance max	100 m Ω max
Switching current	10 μ A min / 1 A max
Dielectric strength	500 Vrms min

Environmental data

Operating temperature	-40°C to +85°C
Soldering temperature	Temperature/time profile acc. to CECC00802 para. 6.1, Fig. 3 with peak temperature
Salt mist	IEC 512 test number 11f (96 hours)
Damp heat	IEC 512 test number 11c (10 days)

CCM04 MK III

6 Contacts Versions

Part Number	N° of Contacts	Total Height	Total Length	Terminal Design	Contact Plating		Insulator Width	Packaging	Modification Code
					Inlay	Gold			
CCM04-4105	6	1.90	11.8	SMT IN	X		7.62	2400	R242
CCM04-5137	6	1.90	11.8	SMT IN		X	7.62	2400	R242
CCM04-4118	6	1.90	14.3	SMT OUT	X		7.62	2400	R242
CCM04-5102*	6	1.90	15.2	SMT OUT		X	7.62	2400	R242
CCM04-5111	6	1.90	14.3	SMT OUT		X	7.62	2400	R242
CCM04-4106	6	2.10	11.8	SMT IN	X		7.62	1900	R192
CCM04-5116	6	2.10	11.8	SMT IN		X	7.62	1900	R192
CCM04-4119	6	2.10	14.3	SMT OUT	X		7.62	1900	R192
CCM04-5112	6	2.10	14.3	SMT OUT		X	7.62	1900	R192
CCM04-4120	6	2.40	14.3	SMT OUT	X		7.62	1900	R192
CCM04-5120	6	2.40	14.3	SMT OUT		X	7.62	1900	R192
CCM04-5106	6	2.50	11.8	SMT IN		X	7.62	1900	R192
CCM04-5114	6	2.50	11.8	SMT IN	X		7.62	1900	R192
CCM04-4121	6	2.65	14.3	SMT OUT	X		7.62	1900	R192
CCM04-5121	6	2.65	14.3	SMT OUT		X	7.62	1900	R192
CCM04-5115	6	2.80	11.8	SMT IN		X	7.62	1900	R192
CCM04-5134	6	2.80	11.8	SMT IN	X		7.62	1900	R192
CCM04-4122*	6	2.90	14.3	SMT OUT	X		7.62	1600	R162
CCM04-5122*	6	2.90	14.3	SMT OUT		X	7.62	1600	R162

8 Contacts Versions

Part Number	N° of Contacts	Total Height	Total Length	Terminal Design	Contact Plating		Insulator Width	Packaging	Modification Code
					Inlay	Gold			
CCM04-4135*	8	1.90	11.8	SMT IN	X		10.16	2400	R242
CCM04-5123*	8	1.90	11.8	SMT IN		X	10.16	2400	R242
CCM04-4148*	8	1.90	14.3	SMT OUT	X		10.16	2400	R242
CCM04-5129*	8	1.90	14.3	SMT OUT		X	10.16	2400	R242
CCM04-4136	8	2.10	11.8	SMT IN	X		10.16	1900	R192
CCM04-5113	8	2.10	11.8	SMT IN		X	10.16	1900	R192
CCM04-4149	8	2.10	14.3	SMT OUT	X		10.16	1900	R192
CCM04-5130	8	2.10	14.3	SMT OUT		X	10.16	1900	R192
CCM04-4150	8	2.40	14.3	SMT OUT	X		10.16	1900	R192
CCM04-5131	8	2.40	14.3	SMT OUT		X	10.16	1900	R192
CCM04-5109	8	2.50	11.8	SMT IN	X		10.16	1900	R192
CCM04-5125	8	2.50	11.8	SMT IN		X	10.16	1900	R192
CCM04-4151	8	2.65	14.3	SMT OUT	X		10.16	1900	R192
CCM04-5132	8	2.65	14.3	SMT OUT		X	10.16	1900	R192
CCM04-5108	8	2.80	11.8	SMT IN	X		10.16	1900	R192
CCM04-5127	8	2.80	11.8	SMT IN		X	10.16	1900	R192
CCM04-4152*	8	2.90	14.3	SMT OUT	X		10.16	1600	R162
CCM04-5133*	8	2.90	14.3	SMT OUT		X	10.16	1600	R162

Note: *Versions on request

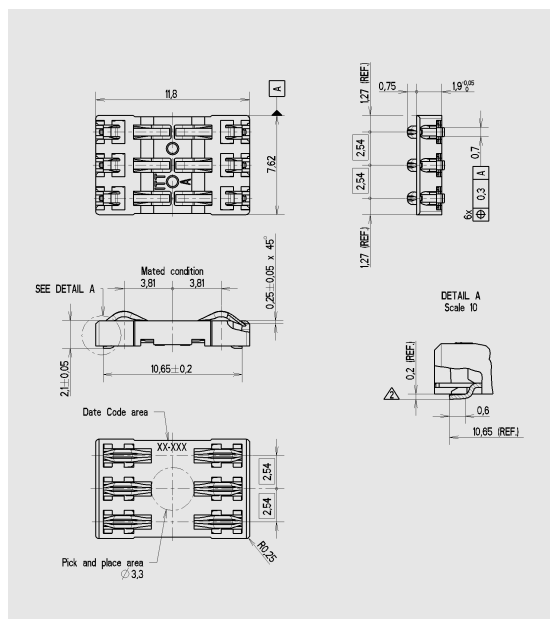
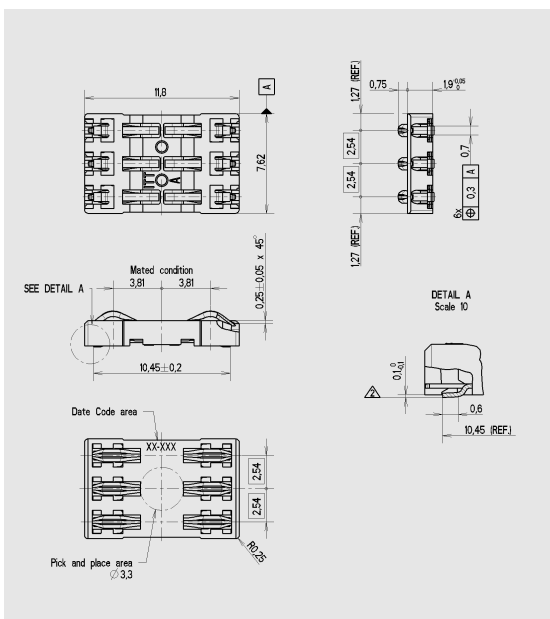
CCM04 MK III

2 x 3 contacts SMT IN

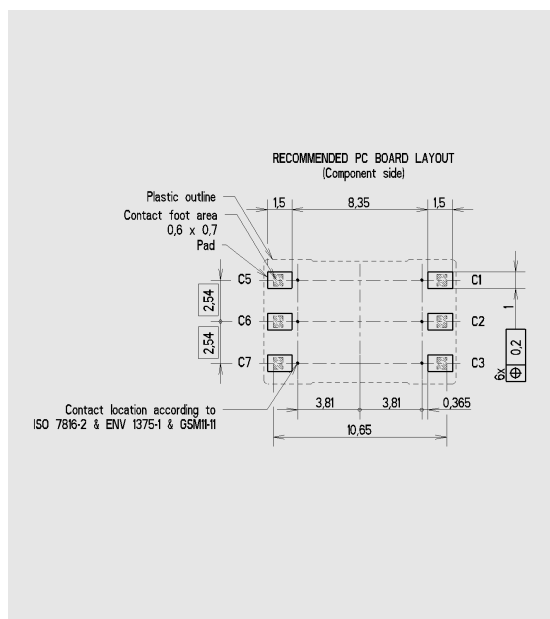
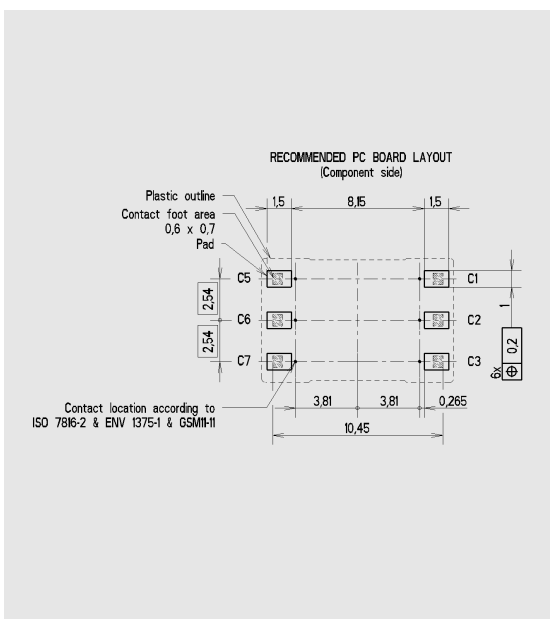
Height	Inlay	Gold
1.90 mm	CCM04-4105	CCM04-5137

Height	Inlay	Gold
2.1 mm	CCM04-4106	CCM04-5116

Dimensional Drawings



PCB Layout



Note: * Versions on request

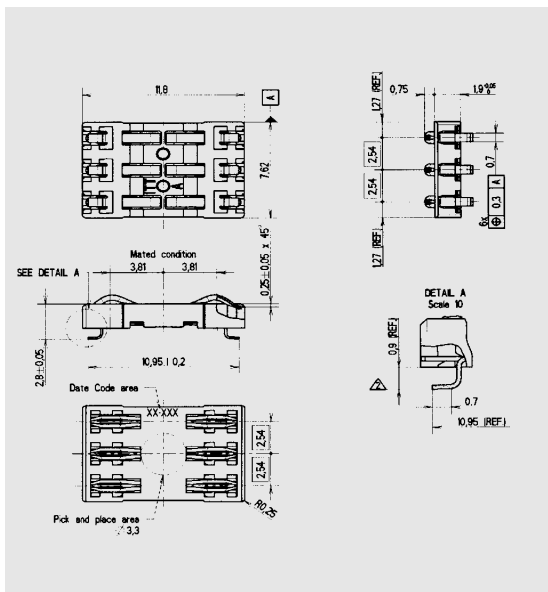
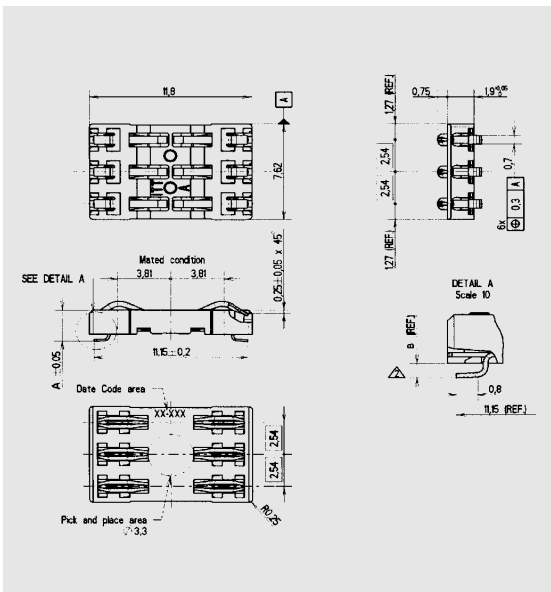
CCM04 MK III

2 x 3 contacts SMT IN

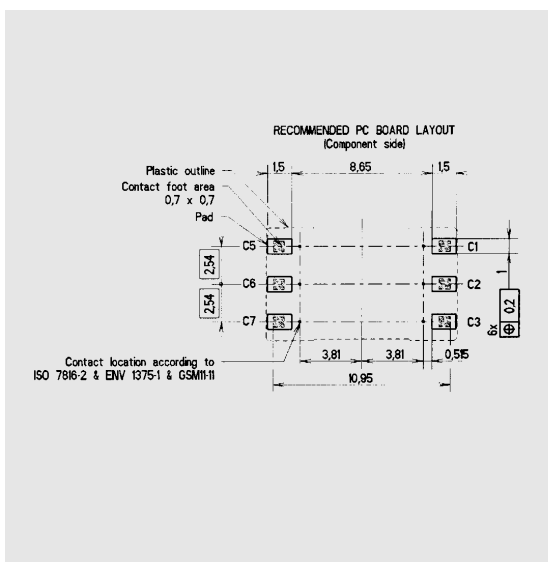
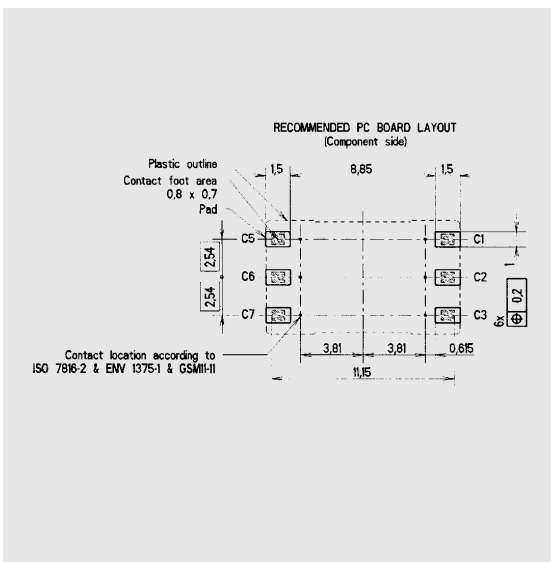
Height A	Height B	Inlay	Gold
2.4 mm	0.5 mm	CCM04-4107*	CCM04-5117*
2.5 mm	0.6 mm	CCM04-5114	CCM04-5106
2.65 mm	0.75 mm	CCM04-4108*	CCM04-5118*
2.9 mm	1 mm	CCM04-4109*	CCM04-5119*
3.15 mm	1.25 mm	CCM04-4110*	CCM04-5107*

Height	Inlay	Gold
2.8 mm	CCM04-5134	CCM04-5115

Dimensional Drawings



PCB Layout



Note: * Versions on request

CCM04 MK III

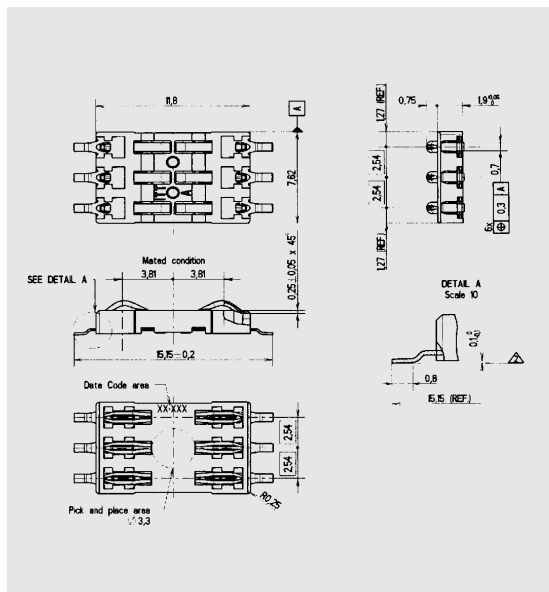
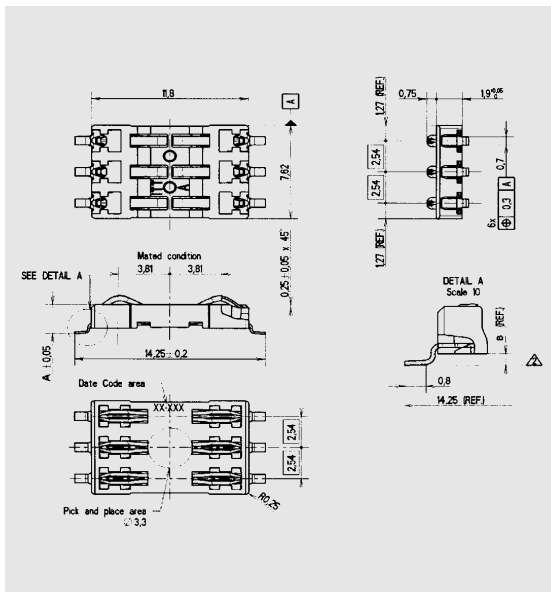
2 x 3 contacts SMT OUT

Height A	Height B	Inlay	Gold
1.9 mm	0.1 mm	CCM04-4118	CCM04-5111
2.1 mm	0.2 mm	CCM04-4119	CCM04-5112
2.4 mm	0.5 mm	CCM04-4120	CCM04-5120
2.65 mm	0.75 mm	CCM04-4121	CCM04-5121
2.9 mm	1.0 mm	CCM04-4122*	CCM04-5122*

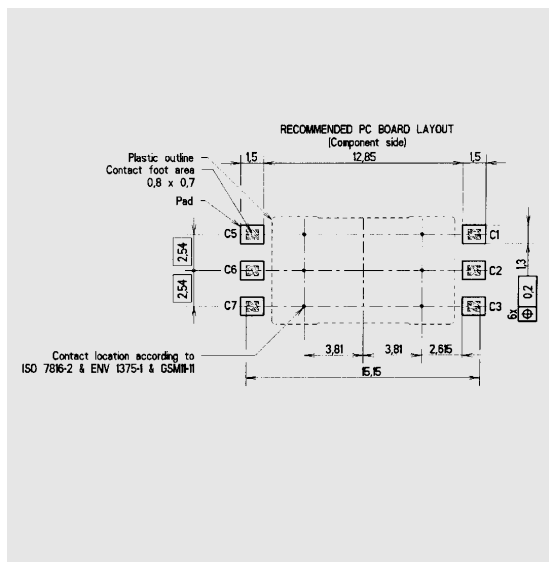
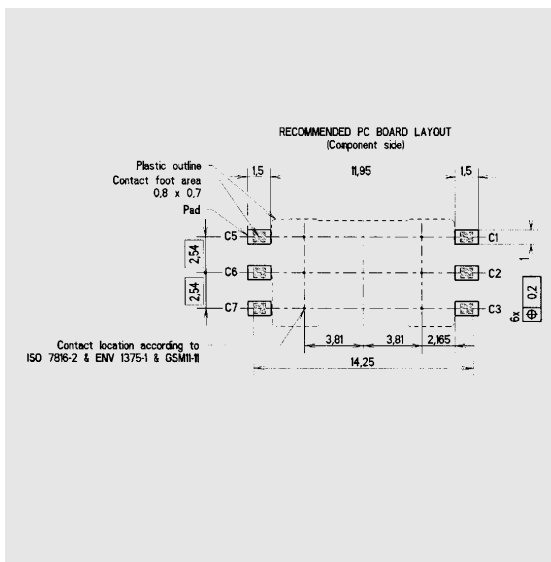
2 x 3 contacts SMT OUT LONG

Height	Inlay	Gold
1.9 mm		CCM04-5102*

Dimensional Drawings



PCB Layout



Note: * Versions on request

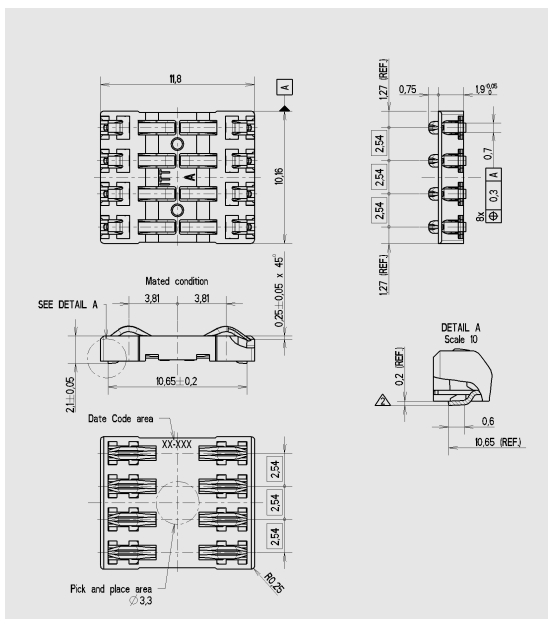
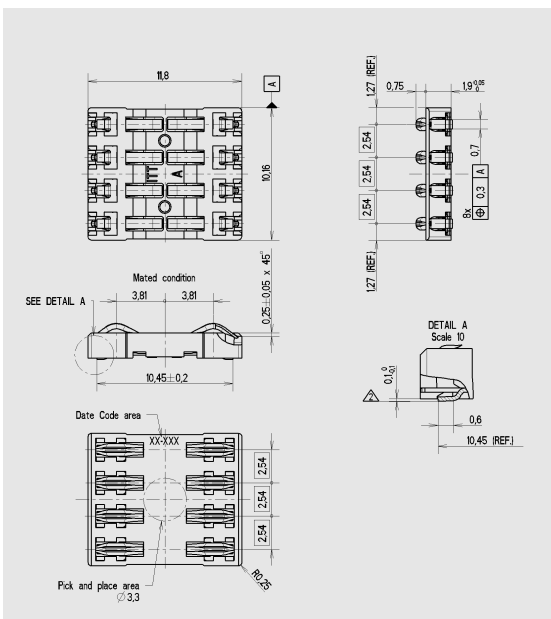
CCM04 MK III

2 x 4 contacts SMT IN

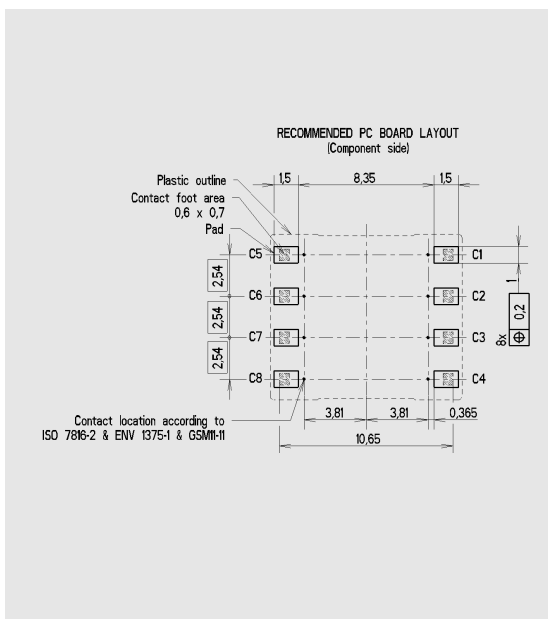
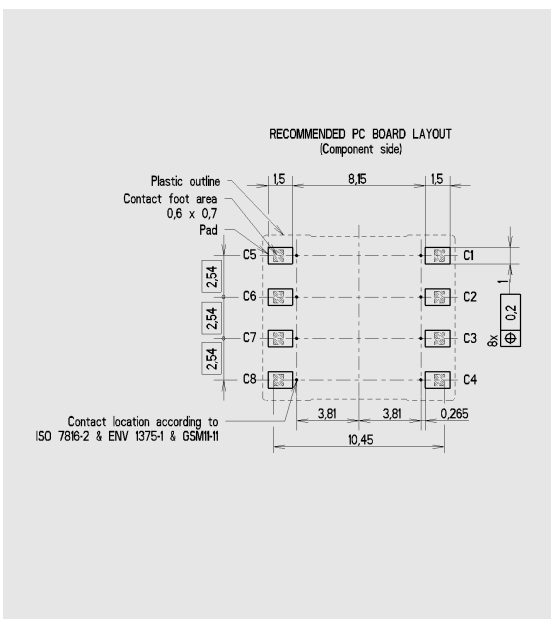
Height	Inlay	Gold
1.90 mm	CCM04-4135	CCM04-5123

Height	Inlay	Gold
2.1 mm	CCM04-4136	CCM04-5113

Dimensional Drawings

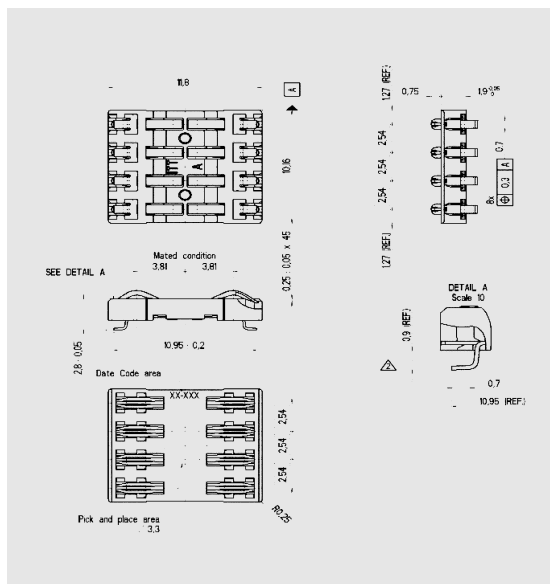


PCB Layout



Height A	Height B	Inlay	Gold
2.4 mm	0.5 mm	CCM04-4137*	CCM04-5124*
2.5 mm	0.6 mm	CCM04-5109	CCM04-5125
2.65 mm	0.75 mm	CCM04-4138*	CCM04-5126*
2.9 mm	1.0 mm	CCM04-4139*	CCM04-5128*
3.15 mm	1.25 mm	CCM04-4140	CCM04-5135*

Height	Inlay	Gold
2.8 mm	CCM04-5108	CCM04-5127

[illegible]

RECOMMENDED PC BOARD LAYOUT
(Component side)

Plastic outline
Contact foot area
0.8 x 0.7
Pad

2.54 2.54 2.54 2.54

C5 C6 C7 C8

1.5 8.95 1.5

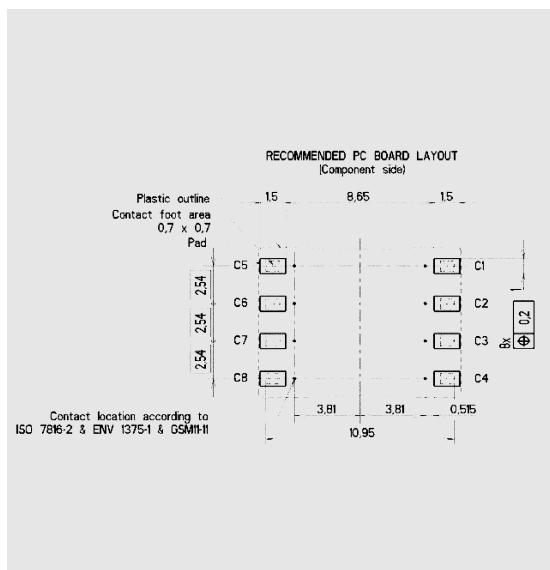
3.81 3.81 0.615

11.15

C1 C2 C3 C4

9.02

Contact location according to
ISO 7816-2 & ENV 1375-1 & GSM11-1



ITT Industries

www.ittcannon.com

