



MEC1-120-02-F-D-EM2

MEC1-120-02-L-D-RA1-SL

(1,00mm) .03937"

MEC1-RA, MEC1-EM SERIES

# RIGHT ANGLE/EDGE MOUNT SOCKETS

Mates with:  
(1,60mm) .062" card

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?MEC1-RA](http://www.samtec.com?MEC1-RA)

**Insulator Material:** Black LCP  
**Contact Material:** Phosphor Bronze  
**Plating:** Au or Sn over 50µ" (1,27µm) Ni  
**Current Rating:** 1.5A @ 80°C (See website for details)  
**Operating Temp Range:** -55°C to +125°C  
**Insertion Depth:** (5,84mm) .230" to (8,13mm) .320"  
**RoHS Compliant:** Yes



**Processing:**  
**Max Processing Temp:** 230°C for 60 seconds, or 260°C for 20 seconds 3x  
**Lead-Free Solderable:** Yes  
**SMT Lead Coplanarity:** (0,10mm) .004" max (05-40) (0,15mm) .006" max (50-70)

**Note:** Some sizes, styles and options are non-standard, non-returnable.



**MEC1** - **1** POSITIONS PER ROW - **CARD SLOT** - **PLATING OPTION** - **D** - **RA1** - **SL**

**05, 08, 20, 30, 40, 50, 60, 70**

**-02**  
= (1,60mm) .062" thick card

**-F**  
= Gold flash on contact, Matte Tin on tail

**-L**  
= 10µ" (0,25µm) Gold on contact, Matte Tin on tail

**APPLICATION SPECIFIC OPTION**

- Elevated body height
- Non-polarized

Call Samtec.

POSITIONS PER ROW	POLARIZED POSITIONS
05	3, 4
08	5, 6
20	15, 16
30	21, 22
40	31, 32
50	41, 42
60	31, 32, 63 & 64
70	53, 54, 115 & 116

**1mm MEC1-RA**

**Rated @ -3dB Insertion Loss**

**6,81mm Stack Height**

Single-Ended Signaling	4.5 GHz / 9 Gbps
Differential Pair Signaling	5.5 GHz / 11 Gbps

Complete test data available at [www.samtec.com?MEC1-RA](http://www.samtec.com?MEC1-RA) or contact [sig@samtec.com](mailto:sig@samtec.com)

**APPLICATION**  
Samtec recommends that pads on the mating board be Gold plated.

Mates with:  
(1,60mm) .062" card

## SPECIFICATIONS

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**Insulator Material:** Black LCP  
**Contact Material:** Phosphor Bronze  
**Plating:** Au or Sn over 50µ" (1,27µm) Ni  
**Operating Temp Range:** -55°C to +125°C  
**Insertion Depth:** (5,84mm) .230" to (8,13mm) .320"  
**RoHS Compliant:** Yes



**Processing:**  
**Max Processing Temp:** 230°C for 60 seconds, or 260°C for 20 seconds 3x  
**Lead-Free Solderable:** Yes

**Note:** Some sizes, styles and options are non-standard, non-returnable.



**MEC1** - **1** POSITIONS PER ROW - **02** - **PLATING OPTION** - **D** - **EM2**

**05, 08, 20, 30, 40, 50, 60, 70**

**-F**  
= Gold flash on contact, Matte Tin on tail

**-L**  
= 10µ" (0,25µm) Gold on contact, Matte Tin on tail

**APPLICATION SPECIFIC OPTION**

- Edge mount leads for (0,80mm) .031" thick board
- Non-polarized

Call Samtec.

POSITIONS PER ROW	POLARIZED POSITIONS
05	3, 4
08	5, 6
20	15, 16
30	21, 22
40	31, 32
50	41, 42
60	31, 32, 63 & 64
70	53, 54, 115 & 116

**1mm MEC1-RA**

**Rated @ -3dB Insertion Loss**

**6,81mm Stack Height**

Single-Ended Signaling	4.5 GHz / 9 Gbps
Differential Pair Signaling	5.5 GHz / 11 Gbps

Complete test data available at [www.samtec.com?MEC1-EM](http://www.samtec.com?MEC1-EM) or contact [sig@samtec.com](mailto:sig@samtec.com)

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

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