

MEC1-120-02-F-D-A

MEC1-130-02-F-D-A

MEC1-140-02-L-D

**MEC1 SERIES**

**(1.00 mm) .0394"**

# MINI EDGE CARD SOCKET

## SPECIFICATIONS

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

**Insulator Material:**

Black LCP

**Contact Material:**

BeCu

**Plating:**

Sn or Au over 50 μm

(1.27 μm) Ni

**Operating Temp Range:**

-55 °C to +125 °C

**Current Rating:**

2.2 A per pin

(2 adjacent pins powered)

**Voltage Rating:**

300 VAC

**Insertion Depth:**

(5.84 mm) .230" to

(8.13 mm) .320"

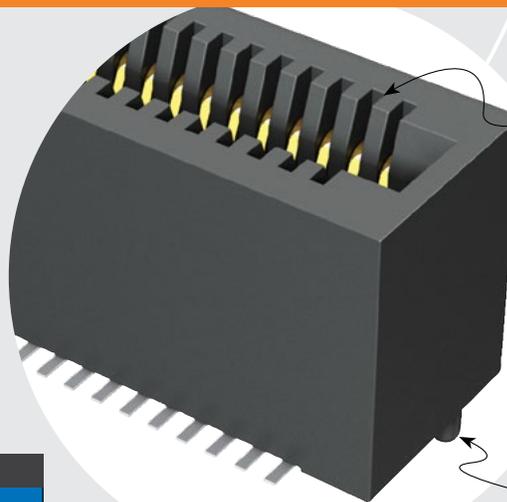
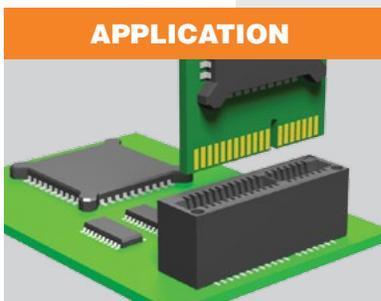
**RoHS Compliant:**

Yes

**Mates with:**

(1.60 mm) .062" card

## APPLICATION



Mates with  
(1.60 mm)  
.062" card

Optional  
Alignment pin

## HIGH-SPEED CHANNEL PERFORMANCE

MEC1

Rating based on Samtec reference channel.  
For full SI performance data visit [Samtec.com](http://Samtec.com)  
or contact [SIG@samtec.com](mailto:SIG@samtec.com)

**14**  
Gbps

## PROCESSING

**Lead-Free Solderable:**

Yes

**SMT Lead Coplanarity:**

(0.10 mm) .004" max (05-20)

(0.15 mm) .006" max (30-70)

## RECOGNITIONS

For complete scope of

recognitions see

[www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## ALSO AVAILABLE

(MOQ Required)

- Locking Clip (Manual placement required)
  - Other platings
- Contact Samtec.

**Important Note:**

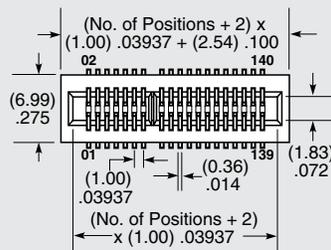
Samtec recommends that pads on the mating board be Gold plated.

**Notes:**

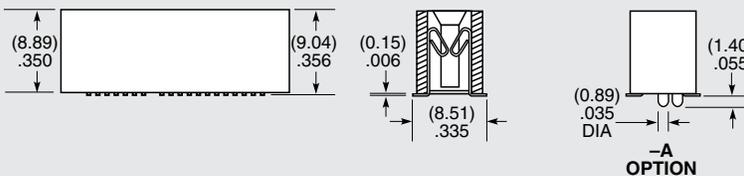
While optimized for 50 Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75 Ω applications. Contact Samtec for further information.

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

<b>MEC1</b>	<b>1</b>	<b>POSITIONS PER ROW</b>	<b>02</b>	<b>PLATING OPTION</b>	<b>D</b>	<b>NP</b>	<b>OTHER OPTION</b>
<b>05, 08, 20, 30, 40, 50, 60, 70</b>				<b>-F</b> = Gold flash on contact, Matte tin on tail	<b>-L</b> = 10 μm (0.25 μm) Gold on contact, Matte Tin on tail	<b>-NP</b> = No Polarization (05, 08, 20 & 30 positions only) Leave Blank for polarization	<b>-A</b> = Alignment Pin metal or plastic at Samtec discretion. <b>-K</b> = (7.87 mm) .310" DIA Polyimide film Pick & Place Pad <b>-TR</b> = Tape & Reel (05-60 only)



POSITIONS PER ROW	POLARIZED POSITIONS (No Contact)
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



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

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

All parts within this catalog are built to Samtec's specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.