

(1.00 mm) .0394"

MEC1-120-02-F-D-A

MEC1-140-02-L-D

MEC1-130-02-F-D-A

MEC1 SERIES

MINI EDGE CARD SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?MEC1

Insulator Material:

Black LCP

Contact Material:

BeCu

Plating:

Sn or Au over 50 μ "

(1.27 μ m) 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

PROCESSING

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

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

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

*(.004" stencil solution

may be available; contact

IPG@samtec.com)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Locking Clip (Manual placement required)
- Other platings

Important Note:

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

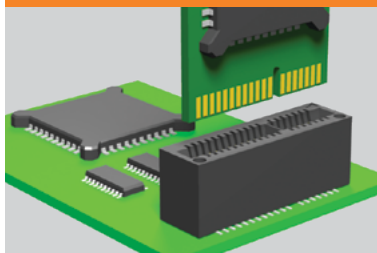
Notes:

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

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

Mates with:
(1.60 mm) .062" card

APPLICATION



HIGH-SPEED CHANNEL PERFORMANCE

MEC1

Rating based on Samtec reference channel.
For full SI performance data visit Samtec.com
or contact SIG@samtec.com

14
Gbps

MEC1

1

POSITIONS
PER ROW

02

PLATING
OPTION

D

NP

OTHER
OPTION

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

-F

= Gold flash on contact,
Matte tin on tail

-L

= 10 μ " (0.25 μ m)
Gold on contact,
Matte Tin on tail

-NP

= No
Polarization
(05, 08, 20 &
30 positions
only)

Leave
Blank for
polarization

-A

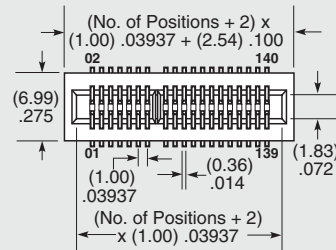
= Alignment
Pin metal or
plastic at
Samtec
discretion.

-K

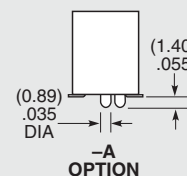
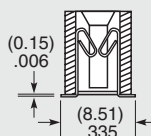
= (7.87 mm)
.310" DIA
Polyimide film
Pick &
Place Pad

-TR

= 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

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.