



(1.00 mm) .0394"

A-MEC1-120-02-F-D-A

A-MEC1-130-02-F-D-A

A-MEC1-140-02-L-D

A-MEC1 SERIES

MINI EDGE CARD SOCKET

SPECIFICATIONS

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

Insulator Material:

Black LCP

Contact Material:

BeCu

Plating:

Sn or Au over 50µ"

(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

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

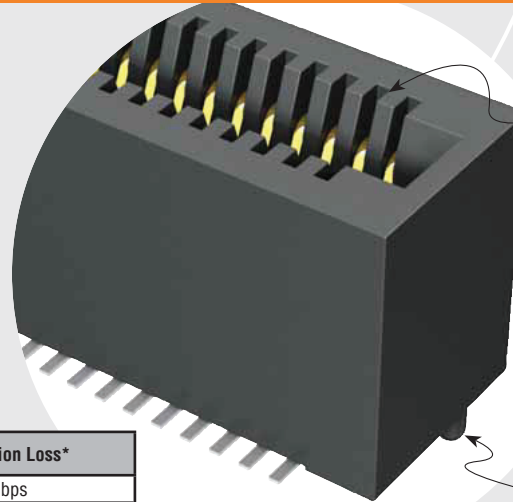
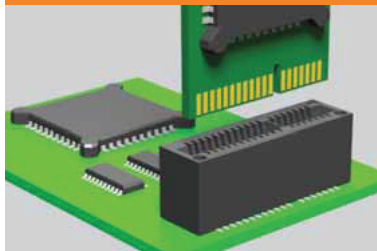
(0.10 mm) .004" max (05-20)

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

Mates with:

(1.60 mm) .062" card

APPLICATION



Mates with
(1.60 mm)
.062" card

Optional
Alignment pin

A-MEC1 9.04 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	5.5 GHz / 11 Gbps
Differential Pair Signaling	6.5 GHz / 13 Gbps

*Performance data includes effects of a non-optimized PCB.
Complete test data available at www.samtec.com?A-MEC1 or contact sig@samtec.com

RECOGNITIONS

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



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Other platings

Contact autosalesgroup@samtec.com

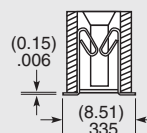
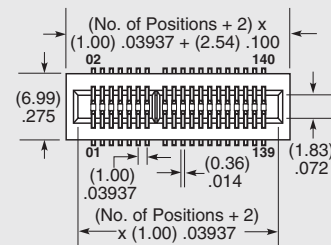
Note: While optimized for 50Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75Ω applications. Contact Samtec for further information.

Important Note:

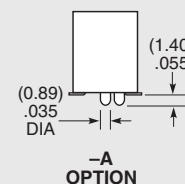
Samtec recommends that pads on the mating board be Gold plated.

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

A-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 = 10µ" (0.25 µm) Gold on contact, Matte Tin on tail	-NP = No Polarization (05, 08, 20 & 30 positions only) Leave Blank for polarization	-A = Alignment Pin plastic at Samtec discretion. -K = (7.87 mm) .310" DIA Polyimide film Pick & Place Pad -TR = Tape & Reel



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

Samtec shall only comport with ISO/TS 16949 on products it certifies as Automotive Custom Design ("ACD") or on those designated with "A-" in the Samtec part number prefix. These are the only Samtec parts approved for use in automotive applications.