

MEC2-05-01-L-DV-WT



(2.00 mm) .0787"

MEC2-DV SERIES

# VERTICAL MINI EDGE CARD SOCKET

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?MEC2-DV](http://www.samtec.com?MEC2-DV)

### Insulator Material:

-01=Black Liquid  
Crystal Polymer  
-02=Natural Liquid  
Crystal Polymer

### Contact Material:

BeCu

### Plating:

Sn or Au over  
50  $\mu$ " (1.27  $\mu$ m) Ni

### Operating Temp Range:

-55 °C to +125 °C

### Current Rating:

3.5 A per pin  
(2 adjacent pins powered)

### Voltage Rating:

238 VAC

### RoHS Compliant:

Yes

## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max (05-30)  
(0.15 mm) .006" max (40-50)\*  
\*(.004" stencil solution  
may be available; contact  
IPG@samtec.com)

## RECOGNITIONS

For complete scope of  
recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## ALSO AVAILABLE (MOQ Required)

- Non-polarized
- Other platings

### Mates with:

(1.60 mm) .062" card,  
(2.36 mm) .093" card

Choice of  
two card  
thicknesses

Up to  
98 I/Os

Rugged  
Weld Tab  
option

Polarized

Surface Mount

Alignment  
Pins

## HIGH-SPEED CHANNEL PERFORMANCE

MEC2-DV

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

14  
Gbps

MEC2

POSITIONS  
PER ROW

CARD  
THICKNESS

PLATING  
OPTION

DV

OPTION

-05, -08, -20,  
-30, -40, -50

-01  
= (1.60 mm) .062"  
thick card  
-02  
= (2.36 mm) .093"  
thick card

-L  
= 10  $\mu$ " (0.25  $\mu$ m)  
Gold on contact,  
Matte Tin on tail

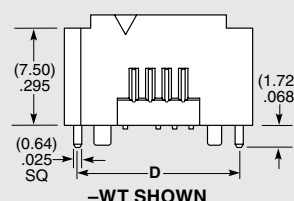
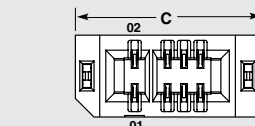
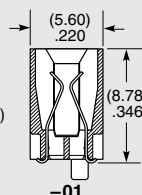
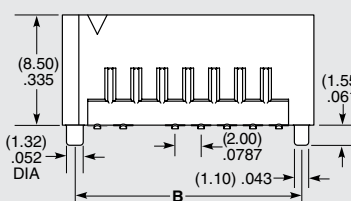
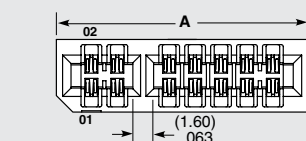
-WT  
= Weld Tabs  
(Standard on  
-02 card thickness,  
optional on -01  
card thickness)

-K  
= (5.00 mm) .197" DIA  
(-01 card thickness)  
(5.70 mm) .224" DIA  
(-02 card thickness)  
Polyimide film  
pick & place pad  
(-TR only)

-TR  
= Tape & Reel  
packaging  
(-05 thru -30  
positions only)

POSITIONS PER ROW	A	B	C	D
-05	(13.40) .528	(11.50) .453	(17.40) .685	(15.40) .606
-08	(19.40) .764	(17.50) .689	(23.40) .921	(21.40) .843
-20	(43.40) 1.709	(41.50) 1.634	(47.40) 1.866	(45.40) 1.787
-30	(63.40) 2.496	(61.50) 2.421	(67.40) 2.654	(65.40) 2.575
-40	(83.40) 3.283	(81.50) 3.209	(87.40) 3.441	(85.40) 3.362
-50	(103.40) 4.071	(101.50) 3.996	(107.40) 4.228	(105.40) 4.150

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



-WT SHOWN

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.

### Notes:

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

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