

MECF-20-01-L-DV

MECF-05-01-L-DV-WT

## MECF SERIES

(1.27 mm) .050"

# MICRO EDGE CARD SOCKET

## SPECIFICATIONS

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

280 VAC

### RoHS Compliant:

Yes

### Mates with:

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

Polarized

Up to  
98 I/Os

Choice of  
two card  
thicknesses

Rugged  
weld tab  
option

Alignment  
pins

## HIGH-SPEED CHANNEL PERFORMANCE

### MECF-DV

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)

25  
Gbps

## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max (05-30)  
(0.15 mm) .006" max (40-50)

## 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

Contact Samtec.

## MECF — 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

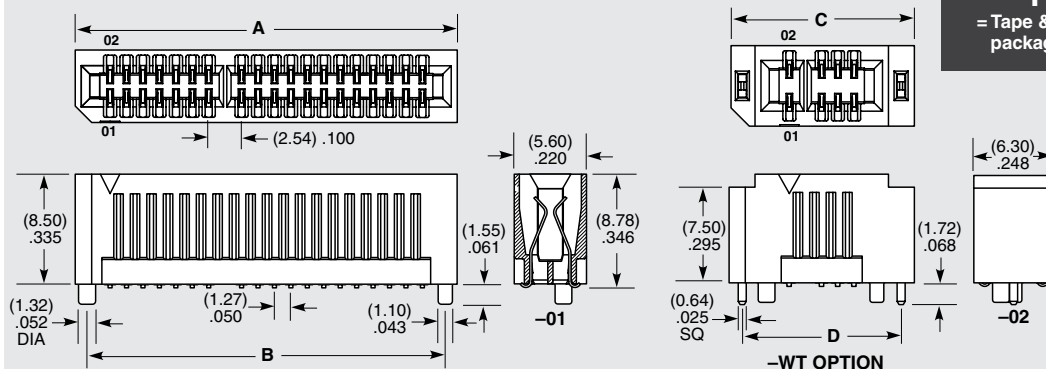
-WT  
= Weld Tabs  
(Standard on  
-02 card thickness,  
optional on -01  
card thickness)

-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

POSITIONS PER ROW	A	B	C	D
-05	(10.46) .412	(8.64) .340	(14.53) .572	(12.45) .490
-08	(14.27) .562	(12.45) .490	(18.34) .722	(16.26) .640
-20	(29.51) 1.162	(27.69) 1.090	(33.58) 1.322	(31.50) 1.240
-30	(42.21) 1.662	(40.39) 1.590	(46.28) 1.822	(44.20) 1.740
-40	(54.91) 2.162	(53.09) 2.090	(58.98) 2.322	(56.90) 2.240
-50	(67.61) 2.662	(65.79) 2.590	(71.68) 2.822	(69.60) 2.740

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



### Notes:

While optimized for 50  $\Omega$  applications, this connector with alternative signal/ground patterns may also perform well in certain 75  $\Omega$  applications. Contact Samtec for further information. Some sizes, styles and options are non-standard, non-returnable.

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.