



MECF-20-01-L-DV

MECF-05-01-L-DV-WT



**MECF SERIES**

**(1.27 mm) .050"**

# MINI 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 μm (1.27 μm) Ni

**Operating Temp Range:**

-55 °C to +125 °C

**Current Rating:**

3.5 A per pin (2 adjacent pins powered)

**Voltage Rating:**

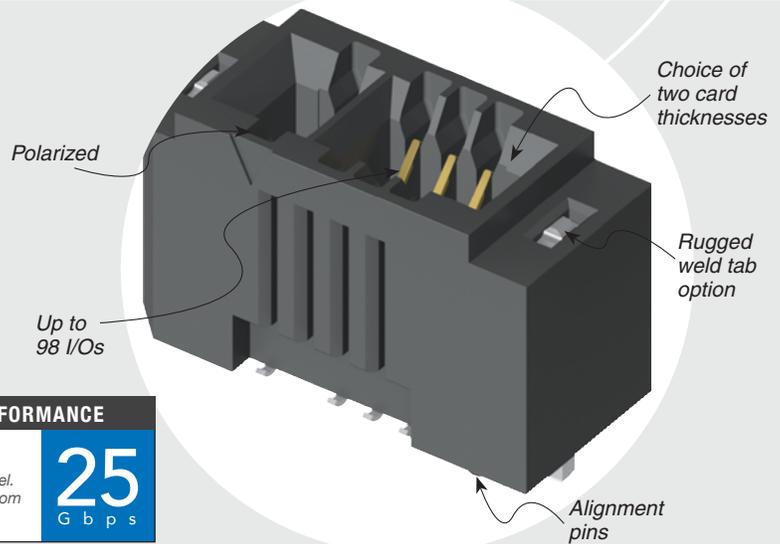
280 VAC

**RoHS Compliant:**

Yes

**Mates with:**

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



### 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)\*  
\*(.004" stencil solution may be available; contact [IPG@samtec.com](mailto: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

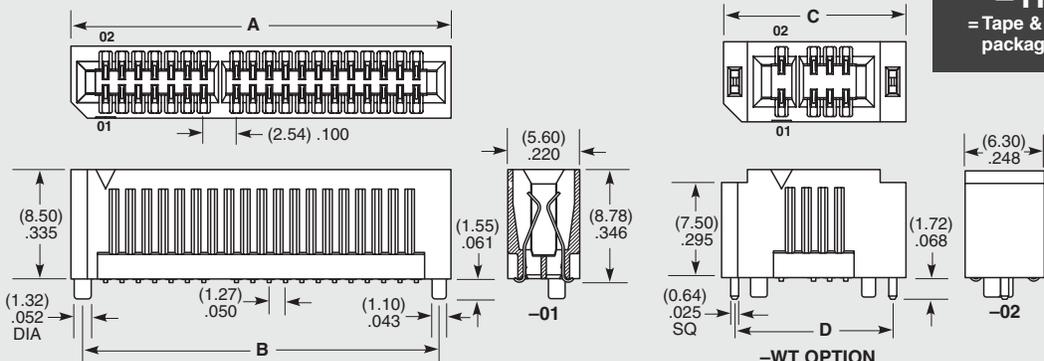
**Notes:**  
While optimized for 50 Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75 Ω applications.

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

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 μm (0.25 μm) 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



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.