

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

Insulator Material:

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

Contact Material:

BeCu

Plating:

Sn or Au over
50µ" (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

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



ALSO AVAILABLE (MOQ Required)

- Non-polarized
 - Other platings
- Contact Samtec.

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

28+
Gbps

MECF-DV	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	14.5 GHz / 29 Gbps
Differential Pair Signaling	14.5 GHz / 29 Gbps

*Test board losses de-embedded from performance data.
Complete test data available at www.samtec.com?MECF-DV or contact sig@samtec.com

MECF

POSITIONS
PER ROWCARD
THICKNESSPLATING
OPTION

DV

OPTION

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

-01
= (1,60 mm) .062"
thick card

-02
= (2,36 mm) .093"
thick card

-L
= 10µ" (0,25 µm)
Gold on contact,
Matte Tin on tail

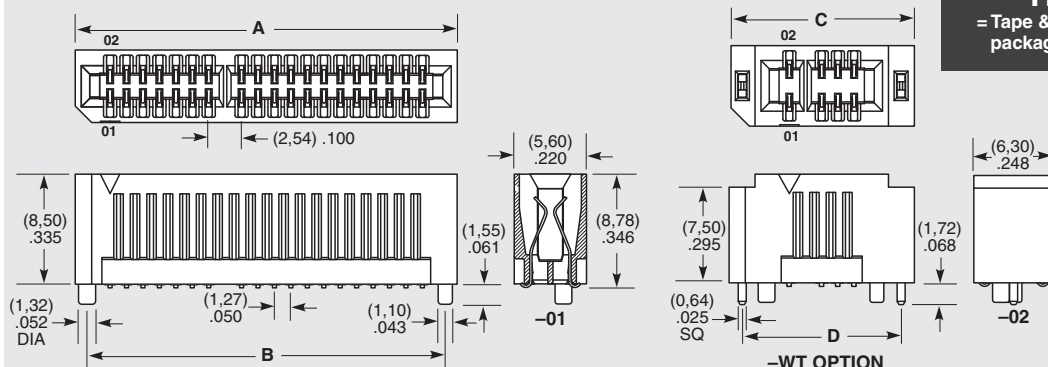
-WT
= Weld Tabs
(Standard on
-02 card thickness,
optional on -01
card thickness)

-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



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.

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

Mouser Electronics

Authorized Distributor

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[Samtec:](#)

[MECF-08-01-L-DV-TR](#)