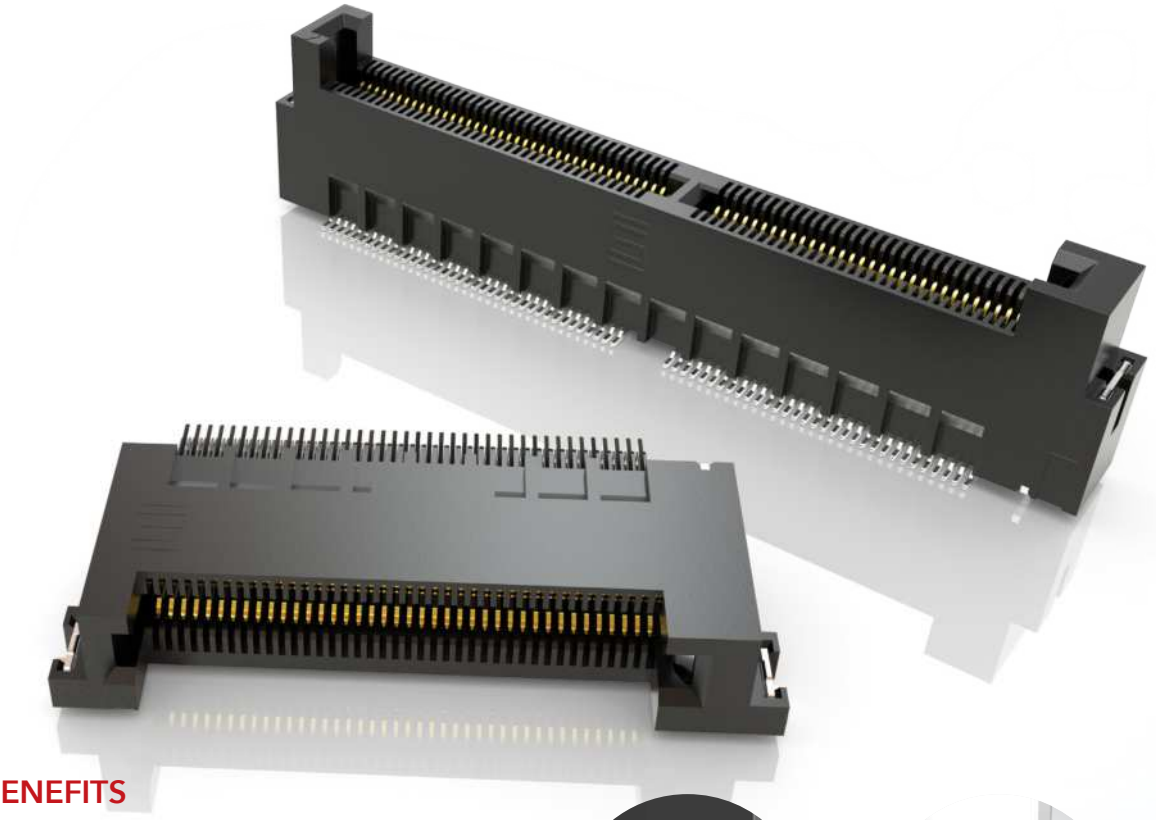
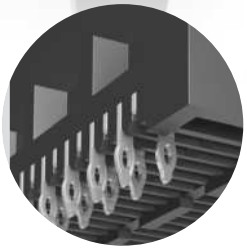
MICRO EDGE CARD SYSTEMS

0.50 mm, 0.635 mm, 0.80 mm, 1.00 mm, 1.27 mm, 2.00 mm PITCH

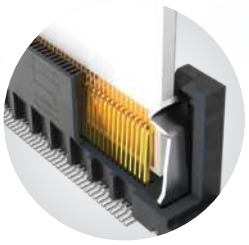


FEATURES & BENEFITS

- Up to 56 Gbps PAM4
- PCI Express® 4.0 (MEC5 Series)
- Solutions for (1.60 mm) .062" and (2.36 mm) .093" thick cards
- Choice of pitch: 0.50 mm, 0.635 mm, 0.80 mm, 1.00 mm, 1.27 mm, 2.00 mm
- Vertical, right-angle and edge mount orientations
- Available in surface mount and through-hole



Staggered press-fit tails (MEC8-VP)



Justification beam ensures card and body are flush (MEC5)

KEY SPECIFICATIONS

SERIES	PITCH	TOTAL POSITIONS	INSULATOR MATERIAL	CONTACT MATERIAL	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
MEC5	0.50 mm	60-200	Black LCP	Phosphor Bronze	-55 °C to +125 °C	1.5 A (2 pins)	125 VAC/177 VDC	Yes
MEC6	0.635 mm	20-140	Black LCP	Phosphor Bronze	-55 °C to +125 °C	2.4 A (2 pins)	185 VAC/262 VDC	Yes
MEC8	0.80 mm	20-140	Black LCP	Phosphor Bronze	-55 °C to +125 °C	2.3 A (2 pins)	180 VAC/255 VDC	Yes
MEC1	1.00 mm	20-140	Black LCP	BeCu	-55 °C to +125 °C	2.2 A (2 pins)	250 VAC/354 VDC	Yes
MECF	1.27 mm	10-100	Black/Natural LCP	BeCu	-55 °C to +125 °C	3.5 A (2 pins)	280 VAC/396 VDC	Yes
MEC2	2.00 mm	10-100	Black/Natural LCP	BeCu	-55 °C to +125 °C	3.5 A (2 pins)	280 VAC/396 VDC	Yes

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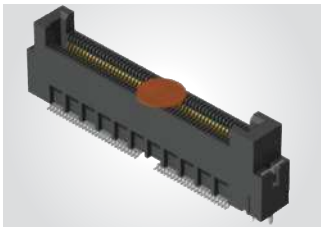
Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

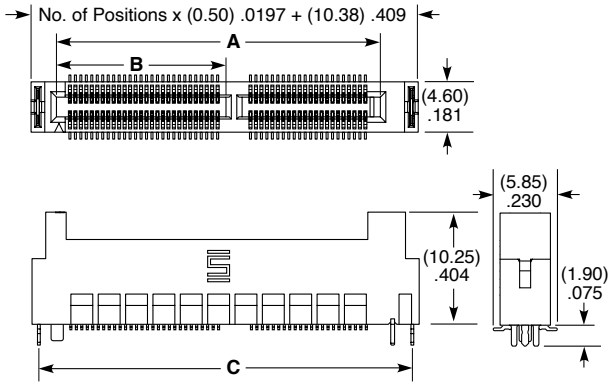
(0.50 mm) .0197" PITCH • MICRO EDGE CARD SOCKET

MEC5	-	POSITIONS PER ROW	-	01	-	PLATING OPTION	-	TAIL OPTION	-	WELD TAB OPTION	-	OTHER OPTION	-	"X"R
		-030, -040, -050, -060, -070, -080 (-RA & -DV) **-090, -100** (-DV only)				**–L** =10 µ" (0.25 µm) Gold on contact, Matte Tin on tail		**–DV** Vertical **–RA** Right-angle		**–W1** = Weld Tab Through-hole (Required for -DV option) **–W2** = Weld Tab Surface Mount (Not available for -DV)		**–K** = Polyimide Pick & Place Pad (Required for -DV) (Not available in -RA)		**–TR** = Tape & Reel **–FR** = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

MEC5-DV

Card Mates:
(1.60 mm) .062" thick card with standard board tolerance





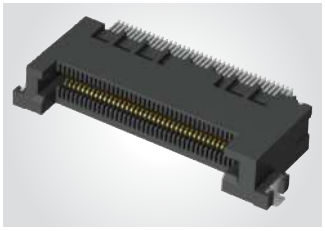
POSITIONS PER ROW	A	B	C
–030	(17.10) .673	N/A	(21.63) .852
–040	(22.10) .870	N/A	(26.63) 1.048
–050	(29.60) 1.165	(15.48) .609	(34.13) 1.344
–060	(34.60) 1.362	(17.98) .708	(39.13) 1.541
–070	(39.60) 1.559	(20.48) .806	(44.13) 1.737
–080	(44.60) 1.756	(22.98) .905	(49.13) 1.934
–090	(49.60) 1.953	(25.48) 1.003	(54.13) 2.131
–100	(54.60) 2.150	(27.98) 1.102	(59.13) 2.328

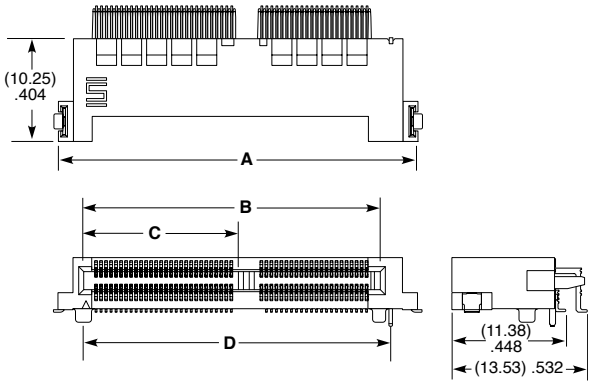
Note: Polarization rib is not present on –030 & -040 positions

View complete specifications at: **samtec.com?MEC5-DV**

MEC5-RA

Card Mates:
(1.60 mm) .062" thick card with standard board tolerance





POSITIONS PER ROW	A	B	C	D
–30	(23.38) .920	(17.10) .673	N/A	(18.16) .715
–40	(28.38) 1.117	(22.10) .870	N/A	(23.16) .912
–50	(35.88) 1.413	(29.60) 1.165	(15.44) .608	(30.66) 1.207
–60	(40.88) 1.609	(34.60) 1.362	(17.94) .706	(35.66) 1.404
–70	(45.88) 1.806	(39.60) 1.559	(20.44) .805	(40.66) 1.601
–80	(50.88) 2.003	(44.60) 1.756	(22.94) .903	(45.66) 1.798

Note: Polarization rib is not present on –030 & -040 positions

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

View complete specifications at: **samtec.com?MEC5-RA**

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