EDGE® RATE SYSTEM

RUGGED HIGH-SPEED STRIPS



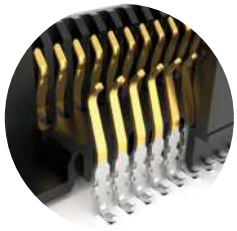
NRZ 28 Gbps | PAM4 56 Gbps

FEATURES & BENEFITS

Edge Rate® rugged high-speed connector strips are designed for high-speed, high cycle applications, and enabled by Samtec's signal integrity-optimized Edge Rate® contact system.

- Up to 1.5 mm contact wipe for a reliable connection
- 20 to 200 positions
- Choice of 0.50 mm, 0.635 mm or 0.80 mm pitch
- 0.50 mm pitch system offers up to 40% PCB space savings vs. 0.80 mm pitch
- 0.635 mm pitch system with extremely slim 2.5 mm body width
- Rugged latching, extended guide posts and 360° shielding
- Severe Environment Testing qualified (ERM8/ERF8); aligns with MIL-DTL-55302. Visit **samtec.com/set**

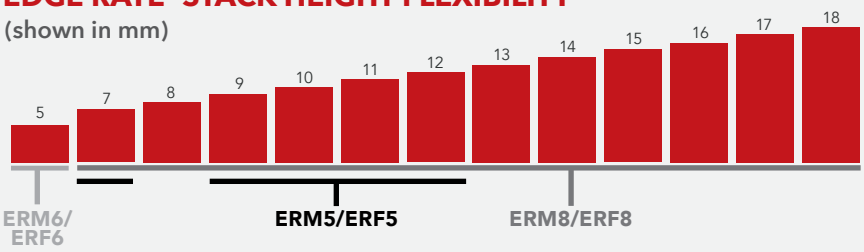
EDGE® RATE CONTACT



Signal integrity-optimized Edge Rate® contact system reduces broadside coupling

EDGE RATE® STACK HEIGHT FLEXIBILITY

(shown in mm)





Rugged 360° shielding reduces EMI

KEY SPECIFICATIONS

SERIES	PITCH	INSULATOR MATERIAL	TERMINAL MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
ERM5 / ERF5	0.50 mm	Black LCP	Phosphor Bronze or BeCu (ERM5), BeCu (ERF5)	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	1.5 A	190 VAC/ 269 VDC	Yes
ERM6 / ERF6	0.635 mm		Copper Alloy			1.4 A	155 VAC/ 219 VDC	
ERM8 / ERF8	0.80 mm		Phosphor Bronze or BeCu (ERM8), BeCu (ERF8)			2.2 A	225 VAC/ 318 VDC	

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.

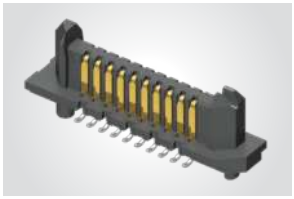
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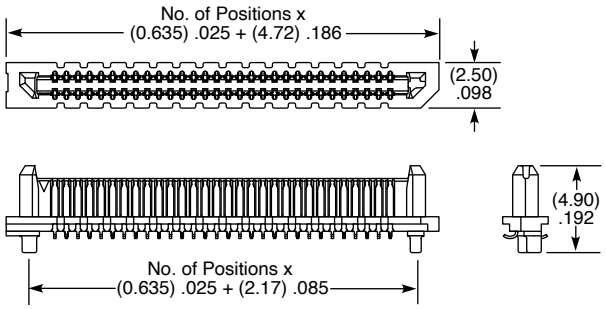
PAM4 56 Gbps

(0.635 mm) .025" PITCH • RUGGED HIGH-SPEED HEADERS & SOCKETS

ERM6	POSITIONS PER ROW	01.5	PLATING OPTION	DV	A	OPTION	K	"X"R
	–10, –20, –30, –40, –50, –60 (Standard Sizes)		–L = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail			(Leave Blank for No Weld Tab) –WT = Weld Tab		–TR = Tape & Reel –FR = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)

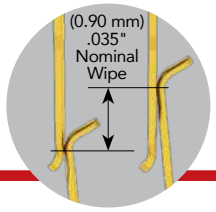
ERM6
Board Mates:
ERF6





MATED HEIGHT*	
ERF6 LEAD STYLE	ERM6 LEAD STYLE –01.5
–03.5	(5.00) .197

*Processing conditions will affect mated height.

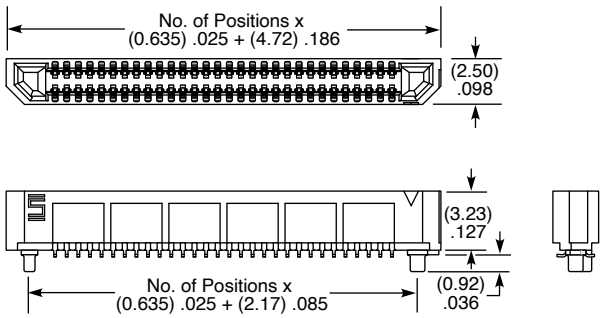


View complete specifications at: **samtec.com?ERM6**

ERF6	POSITIONS PER ROW	03.5	PLATING OPTION	DV	A	OPTION	K	"X"R
	–10, –20, –30, –40, –50, –60 (Standard Sizes)		–L = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail			(Leave Blank for No Weld Tab) –WT = Weld Tab		–TR = Tape & Reel –FR = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)

ERF6
Board Mates:
ERM6





MATED HEIGHT•	
ERF6 LEAD STYLE	ERM6 LEAD STYLE –01.5
–03.5	(5.00) .197

*Processing conditions will affect mated height.

Notes:
Kapton pad and tape & reel packaging are standard.

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

View complete specifications at: **samtec.com?ERF6**

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