

RUGGED HIGH-SPEED STRIPS

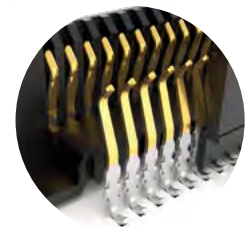


| | |
|------------|------------|
| NRZ | PAM4 |
| 28 Gbps | 56 Gbps |

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.

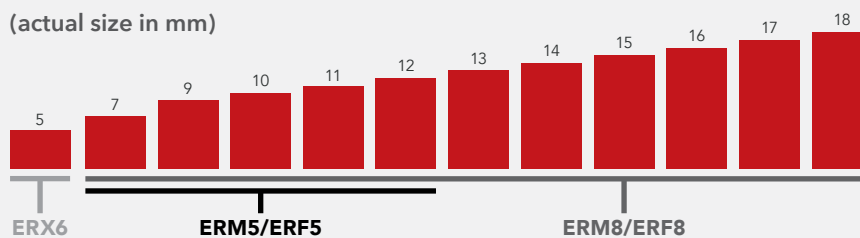
- Choice of 0.50 mm, 0.635 mm or 0.80 mm pitch
- 0.50 mm pitch system offers up to 40% PCB space savings vs. 0.80 mm pitch
- 0.635 mm pitch system with extremely slim 2.5 mm body width
- Rugged latching, locking and 360° shielding
- Up to 1.5 mm contact wipe; robust when "zippered" during unmating
- Compatible with UMPT/UMPS for power/signal flexibility



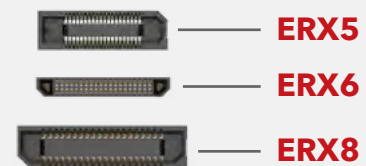
Signal integrity-optimized Edge Rate® contact system reduces broadside coupling

EDGE RATE® STACK HEIGHT FLEXIBILITY

(actual size in mm)



Sockets shown actual size with 40 total positions



KEY SPECIFICATIONS

| SERIES | PITCH | STACK HEIGHTS | TOTAL PINS / PAIRS | INSULATOR MATERIAL | TERMINAL MATERIAL | PLATING | OPERATING TEMP RANGE | LEAD-FREE SOLDERABLE |
|-------------|----------|---------------|--------------------|--------------------|---|----------------------------------|----------------------|----------------------|
| ERM5 / ERF5 | 0.50 mm | 7-12 mm | 20-150 | Black LCP | Phosphor Bronze or BeCu (ERM5), BeCu (ERF5) | Au or Sn over 50 μm (1.27 μm) Ni | -55 °C to +125 °C | Yes |
| ERM6 / ERF6 | 0.635 mm | 5 mm | 20-120 | | Copper Alloy | | | |
| ERM8 / ERF8 | 0.80 mm | 7-18 mm | 10-200 | | Phosphor Bronze or BeCu (ERM8), BeCu (ERF8) | | | |

(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

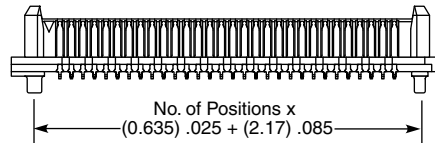
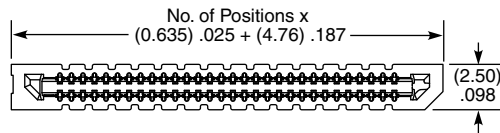
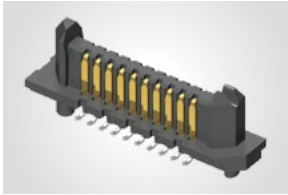
(Leave Blank for
No Weld Tab Pin)

-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:
ERM6



| MATED HEIGHT* | |
|-----------------|-------------------|
| ERF6 LEAD STYLE | ERM6 LEAD STYLE |
| -03.5 | -01.5 (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**

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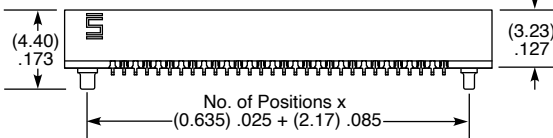
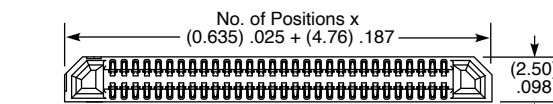
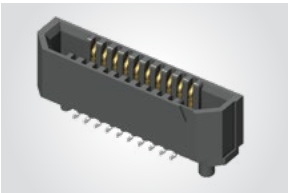
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Notes:

Kapton pad and tape & reel packaging are standard.
Some lengths, styles and options are non-standard, non-returnable.

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