## Erf8-Ra, Erf8-Em Series

### Rugged Edge Rate® Strips

**Erfa-Ra / Erfa-Em**  
Board Mates: Erm8  
Erfa-Ra Cable Mates: ErCd, ErDP  
**Specifications**  
For complete specifications and recommended PCB layouts see www.samtec.com/erfa-Ra or www.samtec.com?erfa-Em  
Insulator Material: Black LCP  
Contact Material: BeCu  
Plating: Au or Sn over 50 µ (1.27 µm) Ni  
Current Rating: 2.2 A per pin (2 pins powered)  
Operating Temp Range: -55 °C to +125 °C  
Voltage Rating: 225 VAC / 318 VDC  
RoHS Compliant: Yes  
**Processing**  
Lead-Free Solderable: Yes  
SMT Lead Coplanarity (Erfa-Ra): 0.04” max (010-050) (0.15 mm), 0.05” max (060-075)  
SMT Lead Coplanarity (Erfa-Em): 0.04” max (005-030) (0.12 mm), 0.05” max (040-075)*1 0.04” stencil solution may be available; contact IPG@samtec.com  
**Recognitions**  
For complete scope of recognitions see www.samtec.com/quality  
**Also Available** (MOQ Required)  
- Other Positions  
- Solder leads & weld tab for (2.36 mm) .093” thick board  
- Solder leads & weld tab for (2.36 mm) .093” thick PCB (Erfa-Ra only)  
- Other platings  
**Notes:**  
Patented  
Some lengths, styles and options are non-standard, non-returnable.  
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**High-Speed Channel Performance**  
ERF8-RA/ERF8-EM  
Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com  
**Ruggedized By Samtec**  
- Edge Rate® contacts  
- Latching option  
- Extended guide post option  
- PCB mounting pins  
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**Erfa**  
**NO. OF POSITIONS PER ROW**  
**01**  
**PLATING OPTION**  
**D**  
**RA**  
**OTHER OPTION**  
**TR**  
**TR**  
**-TR** = Tape & Reel  
**-L** = Latching (N/A with –EGP option)  
**-EM2** = Extended Guide Post (N/A with –L option)  
**-EGPS** = Extended Guide Post Shield (–010, –025, –030 positions only)  
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Patented  
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Due to technical progress, all designs, specifications and components are subject to change without notice.  
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.