



(0.80 mm) .0315"

ERM8-RA, ERM8-EM SERIES

# RUGGED EDGE RATE® STRIPS

## ERM8-RA / ERM8-EM

Board Mates:

ERF8

ERM8-RA Cable Mates:

ERCD

### SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?ERM8-RA](http://www.samtec.com?ERM8-RA) or [www.samtec.com?ERM8-EM](http://www.samtec.com?ERM8-EM)

**Insulator Material:** Black LCP

**Terminal Material:** Phosphor Bronze

**Latch 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:**

235 VAC / 318 VDC

**RoHS Compliant:**

Yes

### PROCESSING

**Lead-Free Solderable:** Yes

SMT Lead Coplanarity

**(ERM8-RA):**

(0.10 mm) .004" max (010-050)

(0.15 mm) .006" max (060-075)

SMT Lead Coplanarity

**(ERM8-EM):**

(0.10 mm) .004" max (005-030)

(0.12 mm) .005" max (040-075)

### RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



### ALSO AVAILABLE (MOQ Required)

- Other Positions
- Solder leads & weld tab for (2.36 mm) .093" thick board
- Other platings
- Contact Samtec.

### APPLICATIONS

STANDARD	POS.	PART NOS.	SERIES
NEXUS5001™.org	11	ASP-137971-01	ERM8-EM
POWER.org™	17	ASP-137974-01	ERM8-EM
ARM/HSTP	20	ASP-133811-01	ERM8-EM
NEXUS5001™.org	23	ASP-133811-02	ERM8-EM
POWER.org™	35	ASP-135040-01	ERM8-EM

**Notes:**

Patented

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

ERM8	NO. OF POSITIONS PER ROW	01	PLATING OPTION	D	RA	OTHER OPTION	TR
-010, -013, -020, -025, -030, -040, -049, -050, -060, -070, -075		-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail		-K = (6.00 mm) .236" DIA Polyimide Film Pick & Place Pad		-TR = Tape & Reel	
<p>No. of Positions x (0.80) .0315 + (13.00) .512</p> <p>(5.75) .226</p> <p>(5.01) .197</p> <p>(11.00) .433</p> <p>(6.25) .246</p> <p>(0.35) .014</p> <p>(0.80) .0315</p> <p>-L</p>		<p>Ground Pin</p> <p>Signal Pins</p> <p>-DS</p>		<p>-L = Latching</p> <p>-DS = Differential Pair (-013, -025 positions only) (Hot swap)</p>		<p><b>HIGH-SPEED CHANNEL PERFORMANCE</b></p> <p>ERM8-RA/ERF8-RA</p> <p>Rating based on Samtec reference channel. For full SI performance data visit <a href="http://Samtec.com">Samtec.com</a> or contact <a href="mailto:SIG@samtec.com">SIG@samtec.com</a></p> <p><b>28</b> Gbps</p>	

ERM8	NO. OF POSITIONS PER ROW	01	PLATING OPTION	D	EM2	OTHER OPTION	TR				
-005, -010, -013, -020, -025, -030, -040, -049, -050, -060, -070, -075		-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail		-EM2 = (1.60 mm) .062" Thick PCB		-TR = Tape & Reel					
<p>-DS OPTION</p> <table border="1"> <tr> <th>PIN COUNT</th> <th>PAIR COUNT</th> </tr> <tr> <td>2x13</td> <td>8</td> </tr> <tr> <td>2x25</td> <td>16</td> </tr> </table> <p>No. of positions x (0.80) .0315 + (9.00) .354</p> <p>EGPS = No. of positions x (0.80) .0315 + (10.00) .394</p> <p>(3.82) .150</p> <p>(5.60) .220</p> <p>(3.20) .126</p> <p>(7.75) .305</p> <p>(5.20) .205</p> <p>(0.80) .0315</p> <p>-L OPTION</p>		PIN COUNT	PAIR COUNT	2x13	8	2x25	16	<p>(5.70) .224</p> <p>(6.80) .268</p> <p>(14.79) .582</p> <p>-EGPS</p>		<p>-L = Latching (Mates to ERF8 Lead Style -05.0 or -RA only)</p> <p>-DS = Differential Pair (-013, -025 pos. only) (Hot Swap)</p> <p>-EGPS = Extended Guide Post Shield (-010, -020, -025, -030 pos. only)</p> <p>-DSS = Differential Pair + Extended Guide Post Shield (-025 pos. only) (Hot Swap)</p>	
PIN COUNT	PAIR COUNT										
2x13	8										
2x25	16										

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

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.