



(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 μm (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)\*

\*(.004" stencil solution

may be available; contact

IPG@samtec.com)

### 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

### APPLICATIONS

STANDARD	POS.	PART NOS.	SERIES
NEXUS5001™.org	11	ASP-137971-01	ERM8-EM
POWER.org™	17	ASP-137974-01	ERM8-EM
ARM/HSSTP	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 μm (0.25 μm) Gold on contact, Matte Tin on tail			-K = (6.00 mm) .236" DIA Polyimide Film Pick & Place Pad  -L = Latching  -DS = Differential Pair (-013, -025 positions only) (Hot swap)	-TR = Tape & Reel

Technical drawings showing dimensions for ERM8-RA/ERM8-EM series. Key dimensions include: (5.75) .226, (0.80) .0315 + (13.00) .512, (11.00) .433, (5.01) .197, (6.25) .246, (0.35) .014, (0.80) .0315, (1.68) .066, (1.00) .039, (1.57) .062 DIA, (6.12) .241, (1.40) .055.

**HIGH-SPEED CHANNEL PERFORMANCE**

ERM8-RA/ERF8-RA

Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

**28**  
Gbps

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 μm (0.25 μm) Gold on contact, Matte Tin on tail		-EM2 = (1.60 mm) .062" Thick PCB	-L = Latching (Mates to ERF8 Lead Style -05.0 or -RA only)  -DS = Differential Pair (-013, -025 pos. only) (Hot Swap)  -EGPS = Extended Guide Post Shield (-010, -020, -025, -030 pos. only)  -DSS = Differential Pair + Extended Guide Post Shield (-025 pos. only) (Hot Swap)	-TR = Tape & Reel

Technical drawings showing dimensions for ERM8-EM series. Key dimensions include: (5.70) .224, (6.80) .268, (14.79) .582, (3.82) .150, (5.60) .220, (3.20) .126, (7.75) .305, (0.80) .031, (5.20) .205, (0.80) .0315, (2.10) .082.

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.