samtec

EDGE RATE® SYSTEM

(0.80 mm) .0315"

ERM8−060−01−L−D−EM2−TR

ERM8−030−01−L−D−RA−L−K−TR

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 or 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)*
*(.004" stencil solution may be available; contact IPG@samtec.com)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

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 POWER.org™	11	ASP-137971-01	ERM8-EM
	17	ASP-137974-01	ERM8-EM
ARM/HSSTP	20	ASP-133811-01	ERM8-EM
NEXUS5001™.org POWER.org™	23	ASP-133811-02	ERM8-EM
	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

−L = Latching

−DS = Differential Pair (−013, −025 positions only) (Hot swap)

−TR = Tape & Reel

No. of Positions x (0.80) .0315 + (13.00) .512

(5.75) .226

(11.00) .433

(5.01) .197

(6.25) .246

(0.35) .014

(0.80) .0315

−L

02

01

−DS
Ground Pin
Ground Pin
Signal Pins

(1.68) .066

(6.12) .241

(1.00) .039

(1.57) .062 DIA

(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 or contact 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 µ" (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

−DS OPTION	
PIN COUNT	**PAIR COUNT**
2x13	8
2x25	16

No. of positions x (0.80) .0315 + (9.00) .354
EGPS = No. of positions x (0.80) .0315 + (10.00) .394

01

02

(3.82) .150

(5.60) .220

(5.70) .224

(6.80) .268

(14.79) .582

−EGPS

(0.80) .031

(3.20) .126

(7.75) .305

(2.10) .082

(5.20) .205

(0.80) .0315

−L OPTION

−L