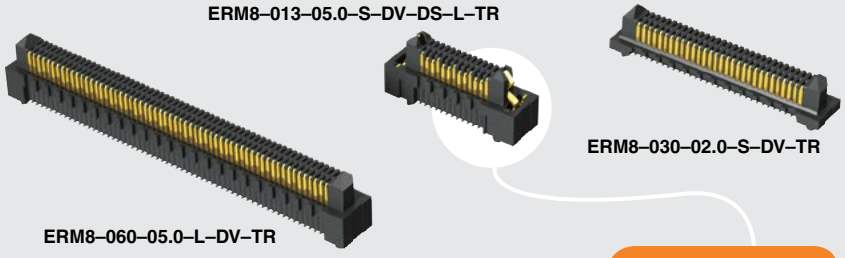
samtec

EDGE® RATE SYSTEM

(0.80 mm) .0315"



ERM8 SERIES

RUGGED HIGH-SPEED HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?ERM8

Insulator Material:
Black LCP
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over
50 µ" (1.27 µm) Ni
Current Rating:
2.2 A per 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:
(0.10 mm) .004" max (005-030)
(0.12 mm) .005" max (040-060)*
(0.15 mm) .006" max (070-100)*
*(.004" stencil solutions may be available; contact IPG@samtec.com)

RECOGNITIONS

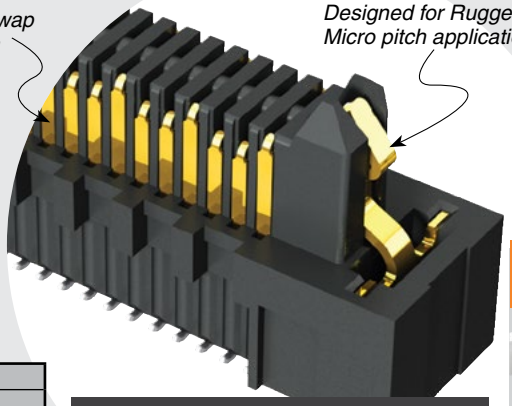
For complete scope of recognitions see www.samtec.com/quality

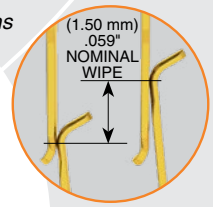
FILE NO. E111594

Board Mates:
ERF8

Cable Mates:
ERCD, ERDP

10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES





MATED HEIGHT*			
ERM8 LEAD STYLE	ERF8 LEAD STYLE		
	–05.0	–07.0	–09.0
–02.0	(7.00) .276	(9.00) .354	(11.00) .453
–05.0	(10.00) .394	(12.00) .472	(14.00) .551
–08.0	(13.00) .512	(15.00) .591	(17.00) .669
–09.0	(14.00) .551	(16.00) .629	(18.00) .709

*Processing conditions will affect mated height.

HIGH-SPEED CHANNEL PERFORMANCE

ERM8/ERF8 @ 7 mm Mated Stack Height

Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

PAM4 56 Gbps

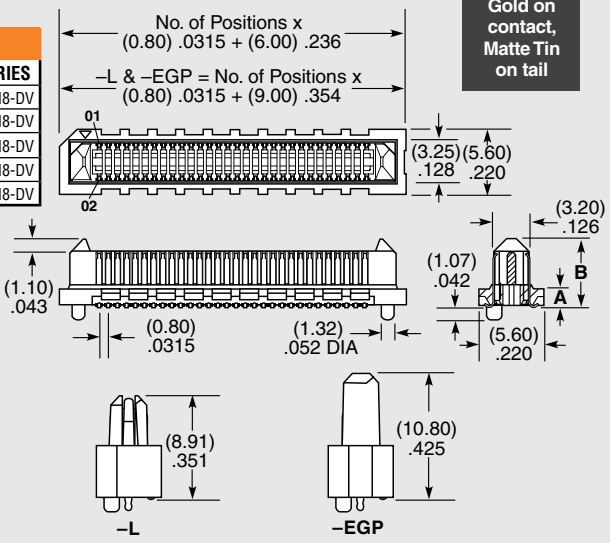
POWER/SIGNAL APPLICATION

Compatible with UMPT/UMPS for flexible two-piece power/signal solutions

ERM8	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	DV	OTHER OPTION	TR
	–005, –010, –011, –013, –020, –025, –030, –035, –040, –049, –050, –060, –070, –075, –100 (Available with –09.0 lead style only) (Not available with –L & –EGP option)	Specify LEAD STYLE from chart	–L = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail –S = 30 µ" (0.76 µm) Gold on contact, Matte Tin on tail		–DS = Differential Pair (–05.0 lead style only) (–010, –013, –025, –049 Positions only) –L = Latching (–05.0 & –09.0 lead styles only) (Not available with –EGP option) –EGP = Extended Guide Post (–05.0 lead style only) (Not available with –L option) –DSP = Differential Pair with Extended Guide Post (–05.0 lead styles only) (–013 & –025 Positions only) –K = (4.00 mm) .157" DIA Polyimide Film Pick & Place Pad (Not available in –02.0 lead style) –P = Pick & Place Pad (–02.0 & -05.0 lead style only)	–TR = Tape & Reel Packaging (Not available with 100 positions)

APPLICATIONS

STANDARD	POS.	PART NOs.	SERIES
NEXUS5001™. org POWER.org™	11	ASP-137968-01	ERM8-DV
	17	ASP-137972-01	ERM8-DV
ARM/HSSTP	20	ASP-130365-01	ERM8-DV
NEXUS5001™. org POWER.org™	23	ASP-130366-01	ERM8-DV
	35	ASP-135020-01	ERM8-DV



LEAD STYLE	A	B
–02.0	(1.61) .063	(5.97) .235
–05.0	(4.61) .181	(8.91) .351
–08.0	(7.61) .300	(11.91) .469
–09.0	(8.61) .339	(12.91) .508

Notes:
Patented

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

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.