

ERM8 SERIES

(0.80 mm) .0315"

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 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: 225 VAC / 318 VDC

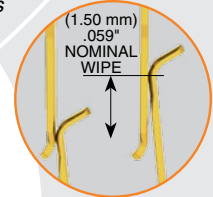
RoHS Compliant: Yes

Board Mates: ERF8

Cable Mates: ERCD, ERDP

Hot Swap option

Designed for Rugged Micro pitch applications



POWER/SIGNAL APPLICATION



Compatible with UMP/TUMPS for flexible two-piece power/signal solutions

MATED HEIGHT*		ERF8 LEAD STYLE		
ERM8 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

Rated based on Samtec reference channel.

For full SI performance data visit Samtec.com or contact SIG@samtec.com

PAM4

56 Gbps

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)

RECOGNITIONS

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



PROTOCOLS

- 100 GbE
- PCI Express®

APPLICATIONS

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

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)	Specify LEAD STYLE from chart	-L = 10 μm (0.25 μm) Gold on contact, Matte Tin on tail -S = 30 μm (0.76 μm) Gold on contact, Matte Tin on tail	-DS = Differential Pair (-05.0 lead style only) (-010, -013, -025, -049 Positions only) -K = (4.00 mm) .157" DIA Polyimide Film Pick & Place Pad -L = Latching (-05.0 & -09.0 lead styles only) (Not available with -EGP & -EGPS options) -EGP = Extended Guide Post (-05.0 lead style only) (Not available with -L option) -EGPS = Extended Guide Post Shield (-02.0 & -05.0 lead style only) (-010, -020, -025, -030 Positions only) (Not available with -L option) -DSP = Differential Pair + Extended Guide Post (-05.0 lead styles only) (-013 & -025 Positions only) -DSS = Differential Pair + Extended Guide Post Shield (-05.0 lead styles only) (-025 positions only)	-TR = Tape & Reel Packaging	

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