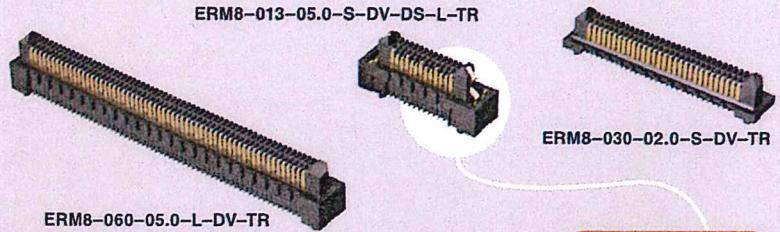




(0,80 mm) .0315"



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
50µ" (1,27 µm) Ni
Current Rating:
2.2 A per pin
(1 pin powered per row)
Operating Temp Range:
-55°C to +125°C
Voltage Rating:
200 VAC max
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 (070-075)

Board Mates:
ERF8

Cable Mates:
ERCD, ERDP

ERM8 LEAD STYLE	MATED HEIGHT*	
	ERF8 LEAD STYLE	
-02.0	(7,00) .276	(9,00) .354
-05.0	(10,00) .394	(12,00) .472
-08.0	(13,00) .512	(15,00) .591
-09.0	(14,00) .551	(16,00) .629

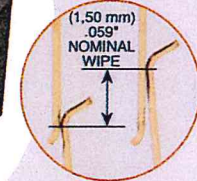
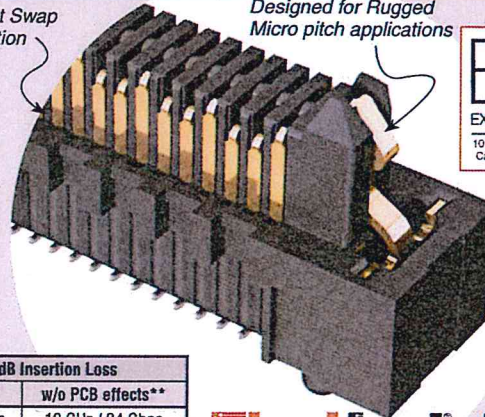
*Processing conditions will affect mated height.

ERM8/ERF8 7 mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	10.5 GHz / 21 Gbps	12 GHz / 24 Gbps
Differential Pair Signaling	9.5 GHz / 19 Gbps	15.5 GHz / 31 Gbps

*Performance data includes effects of a non-optimized PCB.
**Test board losses de-embedded from performance data.
Performance data for other stack heights and complete test data available at www.samtec.com?ERM8 or contact sig@samtec.com

Hot Swap option

Designed for Rugged Micro pitch applications



RECOGNITIONS

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



Protocols Supported

100 GbE
PCI Express®

Download app notes at www.samtec.com/appnote
Contact SIG @ samtec.com for questions on protocols

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
= 10µ" (0,25 µm)
Gold on contact, Matte Tin on tail

-S
= 30µ" (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 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 (-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

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

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

