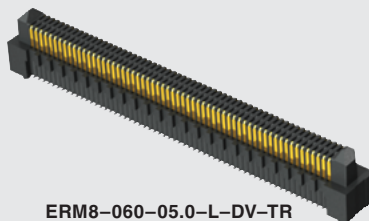


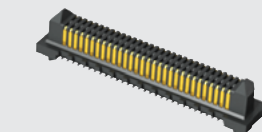


(0,80 mm) .0315"

ERM8-013-05.0-S-DV-DS-L-TR



ERM8-060-05.0-L-DV-TR



ERM8-030-02.0-S-DV-TR

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	
	-05.0	-07.0
-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



10 year Mixed Flowing Gas with 30µ" Gold Call Samtec for maximum mated cycles

(1,50 mm)

.059"

NOMINAL

WIPE

RECOGNITIONS

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



FILE NO. E111594



100 GbE
PCI Express®

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

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.

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	

Diagram showing ERM8 header dimensions and lead styles. Dimensions include (5,70) .224, (8,91) .351, (7,20) .283, (10,80) .425, (3,25) (5,60) .128 .220, (1,10) .043, (0,80) .0315, (1,32) .052 DIA, (5,60) .220, (3,20) .126, (1,07) .042, and (5,60) .220.