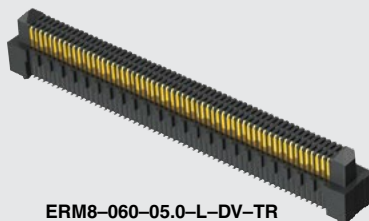


(0.80 mm) .0315"

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](http://www.samtec.com?ERM8)

### Insulator Material:

Black LCP

### Terminal Material:

Phosphor Bronze

### Plating:

Au or Sn over

50  $\mu$ " (1.27  $\mu$ m) 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

## 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](mailto:IPG@samtec.com))

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

Board Mates:  
ERF8

Cable Mates:  
ERCD, ERDP



Hot Swap option

Designed for Rugged Micro pitch applications

(1.50 mm) .059" NOMINAL WIPE

ERM8 LEAD STYLE	MATED HEIGHT*			
	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](http://Samtec.com) or contact [SIG@samtec.com](mailto: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  $\mu$ "  
(0.25  $\mu$ m)  
Gold on contact,  
Matte Tin on tail

-S  
= 30  $\mu$ "  
(0.76  $\mu$ m)  
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)

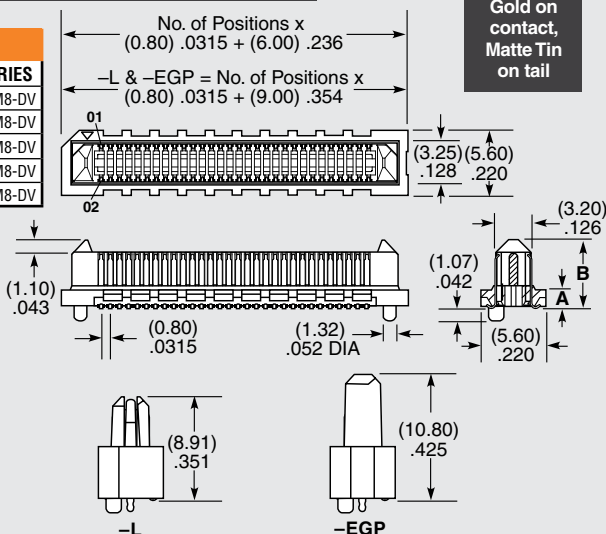
## APPLICATIONS

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.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

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.