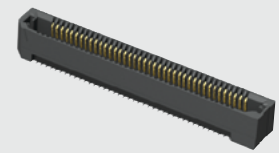
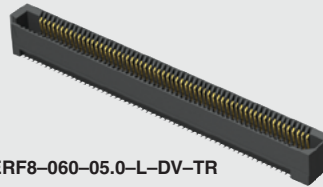


ERF8-020-05.0-S-DV-TR



ERF8-040-05.0-S-DV-TR



ERF8-060-05.0-L-DV-TR

ERF8 SERIES

(0.80 mm) .0315"

RUGGED HIGH-SPEED SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?ERF8

Insulator Material:

Black LCP

Contact Material:

BeCu

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:

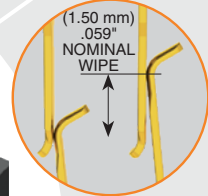
ERM8

Cable Mates:

ERCD, ERDP

Robust Edge Rate® contact improves "Zippered" unmating

10 to 200 I/Os



POWER/SIGNAL APPLICATION



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



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

PAM 4

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)*

*(.004" stencil solution may be available; contact IPG@samtec.com)

RECOGNITIONS

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



FILE NO. E111594

PROTOCOLS

- 100 GbE
- PCI Express®

ALSO AVAILABLE (MOQ Required)

- Mezzanine stack heights
- Contact Samtec.

APPLICATIONS

STANDARD	POS.	PART NOS.	SERIES
NEXUS5001™.org POWER.org™	10	ASP-148421-01	ERF8-DV
	11	ASP-137969-01	ERF8-DV
	17	ASP-137973-01	ERF8-DV
ARM/HSSTP	20	ASP-130367-01	ERF8-DV
	23	ASP-130368-01	ERF8-DV
NEXUS5001™.org POWER.org™	25	ASP-148422-01	ERF8-DV
	35	ASP-135029-01	ERF8-DV
	40	ASP-148424-01	ERF8-DV

Notes:
Patented

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

ERF8	NO. OF POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	DV	OTHER OPTION	TR
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-005, -010, -011,
-013, -020, -025,
-030, -035, -040, -049,
-050, -060, -070, -075

-100
(Available with -05.0 lead style only)

Specify LEAD STYLE from chart

LEAD STYLE	A
-05.0	(5.10) .200
07.0	(7.00) .276
-09.0	(9.00) .354

-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

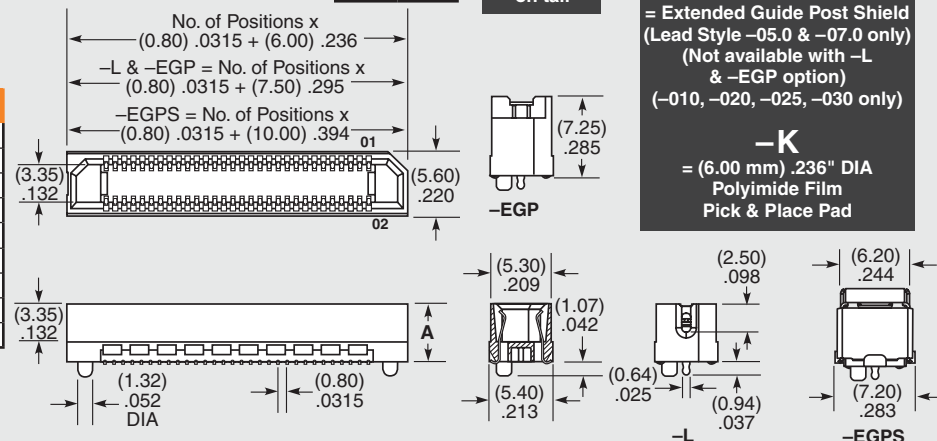
-L
= Latching (Not available with -EGP or -EGPS options & Lead Style -07)

-EGP
= Extended Guide Post (Lead Style -07.0 only) (Not available with -L & -EGPS option)

-EGPS
= Extended Guide Post Shield (Lead Style -05.0 & -07.0 only) (Not available with -L & -EGP option) (-010, -020, -025, -030 only)

-TR
= Tape & Reel Packaging (Not available with 100 positions)

-K
= (6.00 mm) .236" DIA Polyimide Film Pick & Place Pad



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