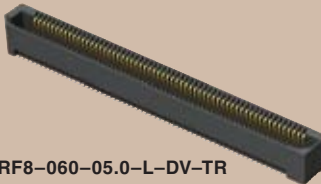




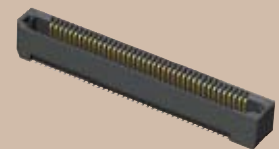
(0,80mm) .0315"

ERF8 SERIES

ERF8-020-05.0-S-DV-TR

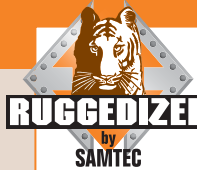


ERF8-060-05.0-L-DV-TR



ERF8-040-05.0-S-DV-TR

RUGGED HIGH SPEED SOCKET



- Edge Rate™ contacts
- Latching option
- Extended guide post option

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 50µ" (1,27µm) Ni
Current Rating: 1.4A @ 95°C
 (6 adjacent pins powered)
Operating Temp Range: -55°C to + 125°C
Voltage Rating: 200 VAC max
RoHS Compliant: Yes



Board Mates: ERM8

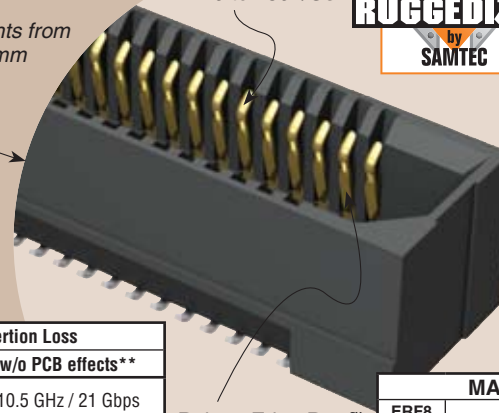
Cable Mates: ERCDA, ERCD, ERDP



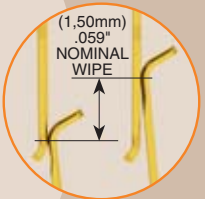
10 year Mixed Flowing Gas with 30µ" Gold
 Call Samtec for maximum cycles mated with ERM8

Stack Heights from 7mm to 16mm

10 to 150 I/Os



Robust Edge Rate™ contact improves "Zippered" unmating



ERM8/ERF8 7mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	10.5 GHz / 21 Gbps	10.5 GHz / 21 Gbps
Differential Pair Signaling	9.5 GHz / 19 Gbps	11 GHz / 22 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?ERF8 or contact sig@samtec.com

ERF8 LEAD STYLE	MATED HEIGHT*			
	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

*Processing conditions will affect mated height.

Protocols Supported

PCI Express®

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

ERF8 ■ NO. OF POSITIONS PER ROW ■ LEAD STYLE ■ PLATING OPTION ■ DV ■ OTHER OPTION ■ TR

-005, -010, -013,
 -020, -025, -030,
 -040, -049, -050,
 -060, -070, -075

Specify LEAD STYLE from chart

LEAD STYLE	A
-05.0	(5,10) .200
-07.0	(7,00) .276

-L = 10µ" (0,25µm) Gold on contact, Matte Tin on tail
 -S = 30µ" (0,76µm) Gold on contact, Matte Tin on tail

-L = Latching (Lead Style -05.0 only) (N/A with -EGP or -EGPS option)
 -EGP = Extended Guide Post (Lead Style -07.0 only) (N/A with -L & -EGPS option)
 -EGPS = Extended Shield Guide Post Shield (Lead Style -07.0 only) (N/A with -L & -EGP option) (-010, -020, -025, -030 only)
 -K = (6,00mm) .236" DIA Polyimide Film Pick & Place Pad

-TR = Tape & Reel Packaging

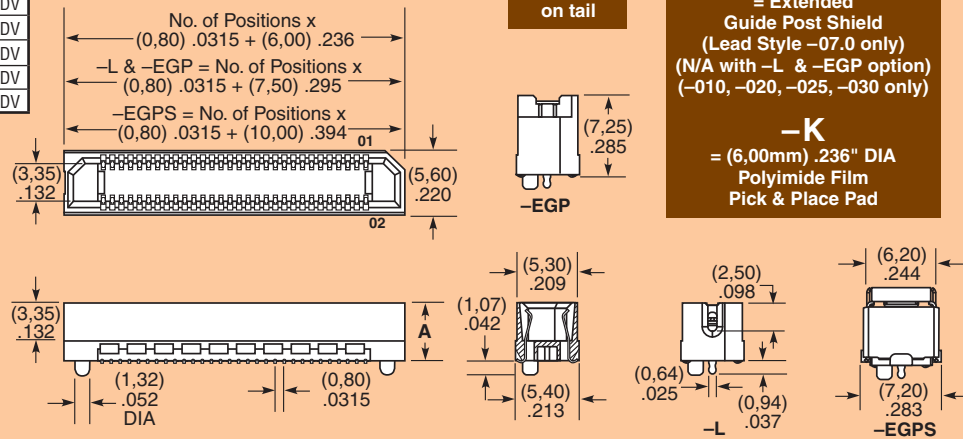
APPLICATIONS

STANDARD	POS.	PART NOS.	SERIES
NEXUS5001™.org	11	ASP-137969-01	ERF8-DV
POWER.org™	17	ASP-130368-01	ERF8-DV
ARM/HSSTP	20	ASP-130367-01	ERF8-DV
NEXUS5001™.org	23	ASP-130368-01	ERF8-DV
POWER.org™	35	ASP-135029-01	ERF8-DV

APPLICATION SPECIFIC

Other positions and mezzanine stack heights available.
 Call Samtec.

Note: 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