



(0,80 mm) .0315"

ERF8-020-05.0-S-DV-TR

ERF8-060-05.0-L-DV-TR

ERF8-040-05.0-S-DV-TR

ERF8 SERIES

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 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

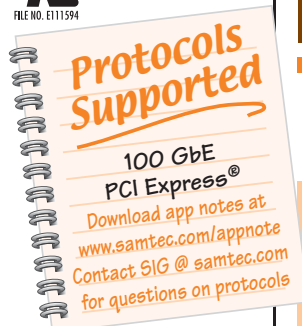
Processing:
Lead-Free Solderable: Yes
SMT Lead Coplanarity:
 (0,10 mm) .004" max (005-030)
 (0,12 mm) .005" max (040-060)
 (0,15 mm) .006" max (070-075)

RECOGNITIONS

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



FILE NO. E111594



APPLICATIONS

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

ALSO AVAILABLE (MOQ Required)

- Mezzanine stack heights
Contact Samtec.

Note: Patented

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

Board Mates:
ERM8

Cable Mates:
ERCD, ERDP

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

*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

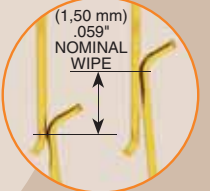
*Performance data includes effects of a non-optimized PCB.

**Test board losses de-embedded from performance data.

Performance data for other stack heights and complete test data available at www.samtec.com?ERF8 or contact sig@samtec.com

Robust Edge Rate™ contact improves "Zippered" unmating

10 to 150 I/Os



Finalinch
CERTIFIED

28+
Gbps

ERF8	NO. OF 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	Specify LEAD STYLE from chart <table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>-05.0</td> <td>(5,10) .200</td> </tr> <tr> <td>-07.0</td> <td>(7,00) .276</td> </tr> </tbody> </table>	LEAD STYLE	A	-05.0	(5,10) .200	-07.0	(7,00) .276	-L = 10µ" (0,25 µm) Gold on contact, Matte Tin on tail -S = 30µ" (0,76 µm) 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 Guide Post Shield (Lead Style -07.0 only) (N/A with -L & -EGP option) (-010, -020, -025, -030 only) -K = (6,00 mm) .236" DIA Polyimide Film Pick & Place Pad	-TR = Tape & Reel Packaging
LEAD STYLE	A										
-05.0	(5,10) .200										
-07.0	(7,00) .276										

No. of Positions x (0,80) .0315 + (6,00) .236

-L & -EGP = No. of Positions x (0,80) .0315 + (7,50) .295

-EGPS = No. of Positions x (0,80) .0315 + (10,00) .394

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

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