



(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 50 μ" (1.27 μm) Ni

Current Rating:

2.2 A per pin

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 (070-100)

RECOGNITIONS

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



PROTOCOLS

- 100 GbE
- PCI Express™

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

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

ERF8 LEAD STYLE	MATED HEIGHT*			
	-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.

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 SIG@samtec.com

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G b p s

Robust Edge Rate®
contact improves
"Zippered" unmating

10 to 150 I/Os

(1.50 mm)
.059"
NOMINAL
WIPE

10 YEAR MFG
WITH 30 μ" GOLD
**EXTENDED LIFE
PRODUCT**
HIGH MATING
CYCLES

ERF8

NO. OF POSITIONS
PER ROWLEAD
STYLEPLATING
OPTION

DV

OTHER
OPTION

TR

-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

-L
= 10 μ"
(0.25 μm)
Gold on contact,
Matte Tin
on tail

-S
= 30 μ"
(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

