

(0.80 mm) .0315"

ERF8-020-05.0-S-DV-TR

ERF8-040-05.0-S-DV-TR

ERF8-060-05.0-L-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

(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 solution may be available; contact IPG@samtec.com)

RECOGNITIONS

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



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Mezzanine stack heights

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
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

Notes:

Patented

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
-09.0	(11.00) .453	(14.00) .551	(17.00) .669	(18.00) .709

*Processing conditions will affect mated height.

ERF8 ■ NO. OF POSITIONS PER ROW

-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)

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

PAM 4

56

Gbps

Robust Edge Rate®
contact improves
"Zippered"
unmating

10 to 200 I/Os

(1.50 mm)
.059"
NOMINAL
WIPE

POWER/SIGNAL APPLICATION



Compatible with
UMPT/UMPS for flexible
two-piece power/signal solutions

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 μ"
(0.25 μm)
Gold on
contact,
Matte Tin
on tail

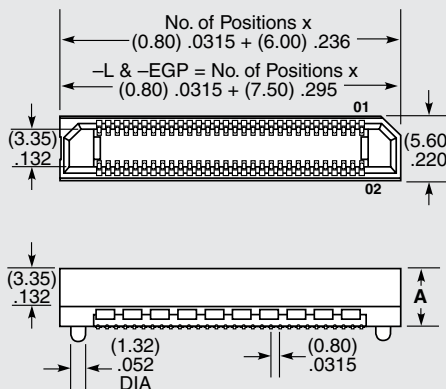
-S
= 30 μ"
(0.76 μm)
Gold on
contact,
Matte Tin
on tail

-L
= Latching
(Lead Style -05.0 only)
(Not available with
-EGP or -EGPS options)

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

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

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



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

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.

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[ERF8-030-07.0-S-DV-L-K-TR](#)