

(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

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)

RECOGNITIONS



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
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

Notes:

Patented

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

Board Mates:
ERM8

Cable Mates:
ERCD, ERDP



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

*Processing conditions will affect mated height.

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

HIGH-SPEED CHANNEL PERFORMANCE

ERM8/ERF8 @ 7 mm

Mated Stack Height

Rating based on Samtec
reference channel.

PAM 4

56
Gbps

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
-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

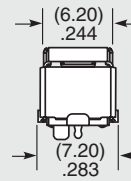
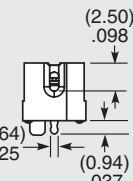
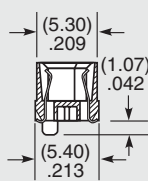
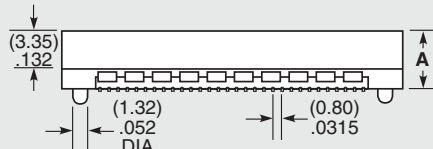
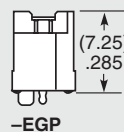
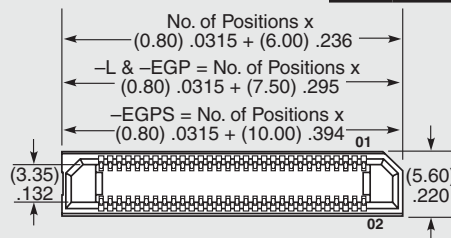
-L
= Latching
(Lead Style -05.0 only)
(Not available with
-EGP or -EGPS options)

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

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

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

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



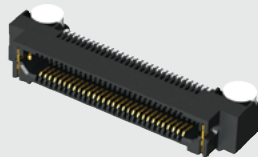
Due to technical progress, all designs, specifications and components are subject to change without notice.

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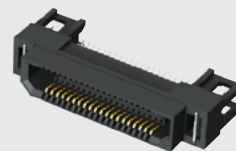
All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

ERF8-030-01-L-D-RA-L-TR



ERF8-020-01-L-D-EM2-TR



(0.80 mm) .0315"

ERF8-RA, ERF8-EM SERIES

RUGGED EDGE RATE® STRIPS

ERF8-RA / ERF8-EM
Board Mates:

ERM8

ERF8-RA Cable Mates:

ERCD, ERDP

SPECIFICATIONS

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**(ERF8-RA):**

(0.10 mm) .004" max

SMT Lead Coplanarity**(ERF8-EM):**

(0.10 mm) .004" max (005-030)

(0.12 mm) .005" max (040-075)*

*(.004" stencil solution may be available)

RECOGNITIONS



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Other Positions
- Solder leads & weld tab for (2.36 mm) .093" thick board
- Solder leads & weld tab for (2.36 mm) .093" thick PCB (ERF8-RA only)
- Other platings

Notes:

Patented

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

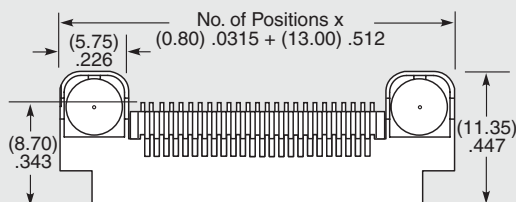
ERF8	NO. OF POSITIONS PER ROW	01	PLATING OPTION	D	RA	OTHER OPTION	TR
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 -010, -013, -020,
 -025, -030, -040, -049,
 -050, -060, -070, -075

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

 -L
 = Latching
 (N/A with -EGP option)

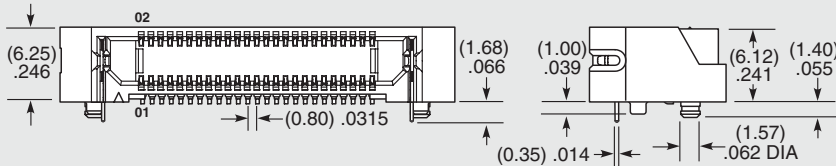
 -TR
 = Tape &
 Reel

 -EGP
 = Extended Guide Post
 (N/A with -L option)


HIGH-SPEED CHANNEL PERFORMANCE

ERF8-RA/ERM8-RA

 Rating based on
 Samtec reference channel.

28
 G b p s


RUGGEDIZED — BY SAMTEC —

- Edge Rate® contacts
- Latching option
- Extended guide post option
- PCB mounting pins

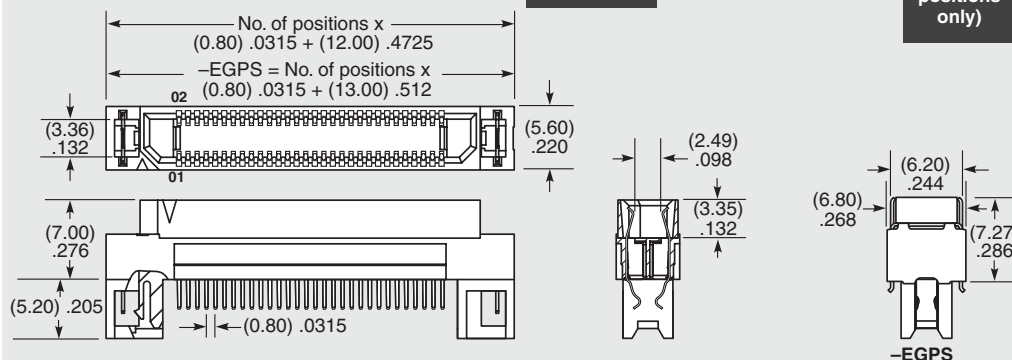
ERF8	NO. OF POSITIONS PER ROW	01	PLATING OPTION	D	EM2	OTHER OPTION	TR
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 -005, -010, -013, -020,
 -025, -030, -040, -049,
 -050, -060, -070, -075

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

 -EM2
 = (1.60 mm) .062"
 Thick PCB

 -EGPS
 = Extended Guide Post
 Shield
 (-010, -020,
 -025, -030
 positions
 only)

 -TR
 = Tape &
 Reel


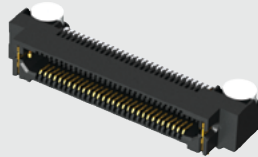
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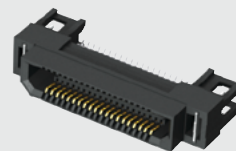
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ERF8-030-01-L-D-RA-L-TR



ERF8-020-01-L-D-EM2-TR



(0.80 mm) .0315"

ERF8-RA, ERF8-EM SERIES

RUGGED EDGE RATE® STRIPS

ERF8-RA / ERF8-EM

Board Mates:

ERM8

ERF8-RA Cable Mates:

ERCD, ERDP

SPECIFICATIONS

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

(ERF8-RA):

(0.10 mm) .004" max

SMT Lead Coplanarity

(ERF8-EM):

(0.10 mm) .004" max (005-030)

(0.12 mm) .005" max (040-075)*

*(.004" stencil solution may be available)

RECOGNITIONS



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Other Positions
- Solder leads & weld tab for (2.36 mm) .093" thick board
- Solder leads & weld tab for (2.36 mm) .093" thick PCB (ERF8-RA only)
- Other platings

Notes:

Patented

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

ERF8	NO. OF POSITIONS PER ROW	01	PLATING OPTION	D	RA	OTHER OPTION	TR
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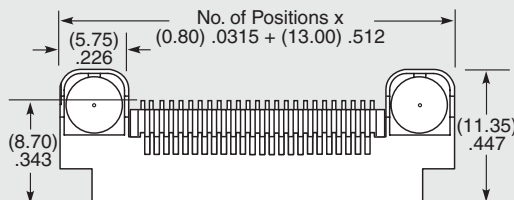
-010, -013, -020,
-025, -030, -040, -049,
-050, -060, -070, -075

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

-L
= Latching
(N/A with -EGP option)

-TR
= Tape & Reel

-EGP
= Extended Guide Post
(N/A with -L option)

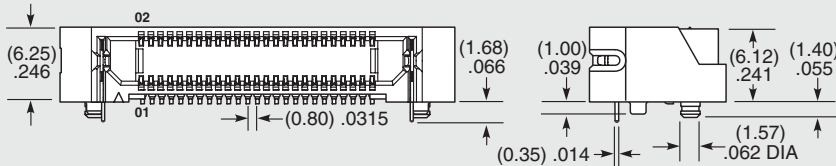


HIGH-SPEED CHANNEL PERFORMANCE

ERF8-RA/ERM8-RA

Rating based on
Samtec reference channel.

28
G b p s



RUGGEDIZED — BY SAMTEC —

- Edge Rate® contacts
- Latching option
- Extended guide post option
- PCB mounting pins

ERF8	NO. OF POSITIONS PER ROW	01	PLATING OPTION	D	EM2	OTHER OPTION	TR
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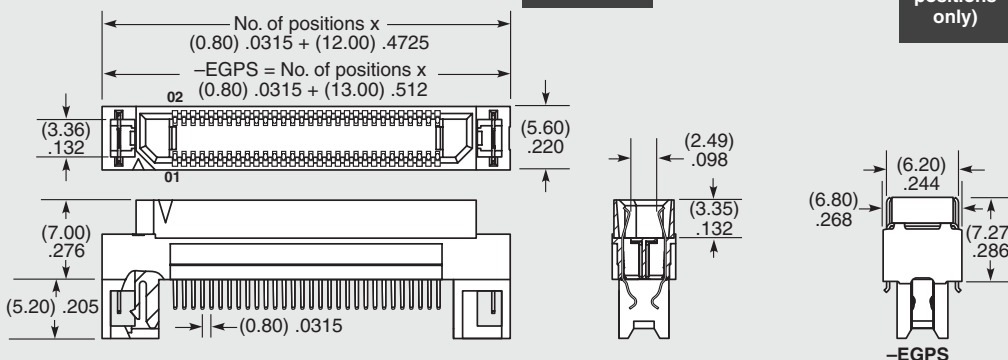
-005, -010, -013, -020,
-025, -030, -040, -049,
-050, -060, -070, -075

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

-EM2
= (1.60 mm) .062"
Thick PCB

-EGPS
= Extended Guide Post
Shield
(-010, -020,
-025, -030
positions
only)

-TR
= Tape & Reel



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