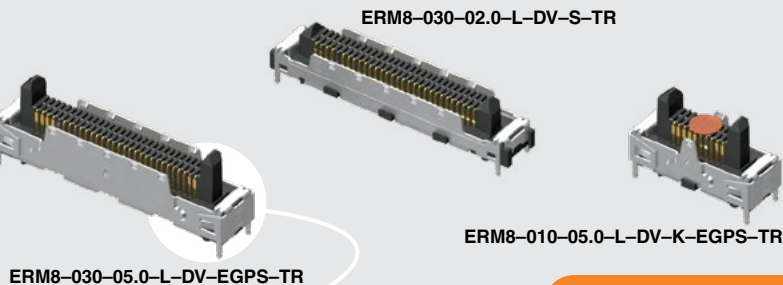


(0.80 mm) .0315"



ERM8-S SERIES

# RUGGED HIGH-SPEED SHIELDED HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?ERM8](http://www.samtec.com?ERM8)

### Insulator Material:

Black LCP

### Terminal Material:

Phosphor Bronze

### Plating:

Au or Sn over

50  $\mu$ " (1.27  $\mu$ m) 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 (010-030)

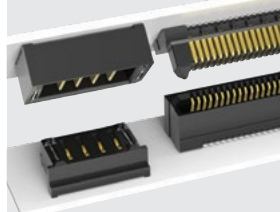
## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## POWER/SIGNAL APPLICATION



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

| NO. OF POSITIONS | C             | D             |
|------------------|---------------|---------------|
| -10.0            | (14.00) .551  | (16.36) .644  |
| -20.0            | (22.00) .866  | (24.36) .959  |
| -25.0            | (26.00) 1.024 | (28.36) 1.117 |
| -30.0            | (30.00) 1.181 | (32.36) 1.274 |

Notes:  
Patented

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

### Board Mates:

See "Mated Height" Chart

(Note: ERF8-S does not mate with ERM8-EGPS)



## 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](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

PAM 4

# 56

G b p s

## ERM8 POSITIONS PER ROW LEAD STYLE PLATING OPTION DV OTHER OPTION TR

-010, -020,  
-025, -030

-02.0  
= 2 mm  
(-S only)

-05.0  
= 5 mm  
(-EGPS &  
-DSS only)

-09.0  
= 9 mm  
(-EGPS &  
-DSS only)

-L  
= 10  $\mu$ " (0.25  $\mu$ m)  
Gold on contact,  
Matte Tin on tail

-S  
= 30  $\mu$ " (0.76  $\mu$ m)  
Gold on contact,  
Matte Tin on tail

-S  
= Shield  
(-02.0 style only)

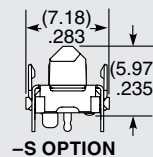
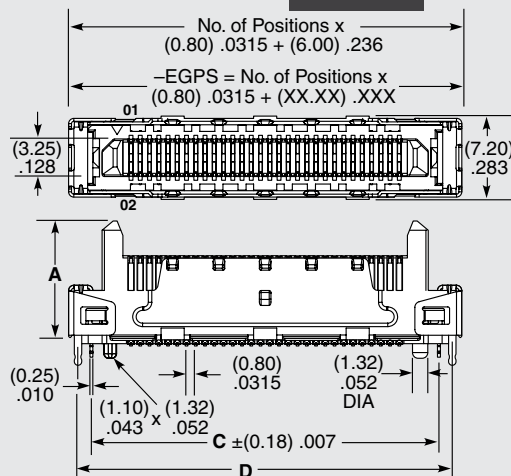
-EGPS  
= Extended Guide Post Shield  
(-05.0 & -09.0 lead style only)

-DSS  
= Differential Pair with Extended Guide Post Shield  
-05.0 & -09.0 lead style only  
(-10 & -025 positions only)

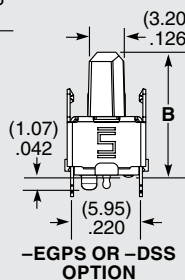
-K  
= (4.00 mm) .157" DIA Polyimide Film Pick & Place Pad  
(Not available in -02.0 lead style)

-P  
= Pick & Place Pad  
(-02.0 & -05.0 lead style only)

| LEAD STYLE | A            | B            |
|------------|--------------|--------------|
| -05.0      | (9.87) .389  | (10.81) .425 |
| -09.0      | (13.87) .546 | (14.81) .583 |



-S OPTION



-EGPS OR -DSS OPTION

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

[WWW.SAMTEC.COM](http://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.