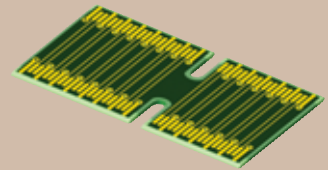


RU8-140-25-SE-S-DV-BL



HSC8-040-02-25-DP

# 0,80mm RISER CARD KIT RU8, HSC8 SERIES

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?RU8](http://www.samtec.com?RU8)

### Connector:

**Insulator Material:** Black Liquid Crystal Polymer  
**Contact:** BeCu  
**Plating:** Au or Sn over 50µ" (1,27µm) Ni  
**Current Rating:** 3.1A @ 30°C  
**Temperature Rise:** Temperature Rise  
**Operating Temp:** -55°C to +125°C



### Processing:

**Max Processing Temp:** 230°C for 60 seconds, or 260°C for 20 seconds 3x  
**Lead-Free Solderable:** Yes  
**SMT Lead Coplanarity:** (0,10mm) .004" max (40-60)  
**RoHS Compliant:** Yes

## RU8 - 1 POSITIONS PER ROW - STACK HEIGHT - SIGNAL ROUTING - PLATING OPTION - DV - BL - OTHER OPTION

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

**40, 50, 60**

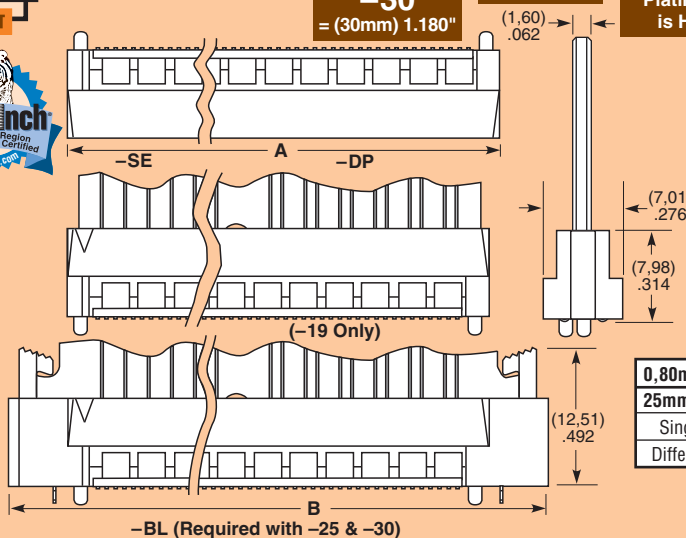
**-19**  
= (19mm) .748"  
**-25**  
= (25mm) .984"  
**-30**  
= (30mm) 1.180"

**-SE**  
= Single-Ended  
**-DP**  
= Differential Pair

**-S**  
= 30µ" (0,76µm) Gold on contact, Matte Tin on tail (Plating for connectors)  
**Plating for Card is Hard Gold**

**-BL**  
= Board Locks (Bottom Socket only) (Not available on -19 stack height)

Leave blank for Trays  
**-K**  
= (5,50mm) .217" DIA Polyimide Film Pick & Place Pad  
**-TR**  
= Tape & Reel



NO. OF POSITIONS PER SIDE	A	B	-SE TOTAL SIGNAL LINES	-DP TOTAL SIGNAL PAIRS
40	(39,80) 1.567	(50,39) 1.984	40	26
50	(47,80) 1.882	(58,39) 2.299	50	32
60	(55,80) 2.197	(66,40) 2.614	60	38

0,80mm pitch RU8	Rated @ -3dB Insertion Loss
25mm Stack Height	
Single-Ended Signaling	7.5 GHz / 15 Gbps
Differential Pair Signaling	7.5 GHz / 15 Gbps

Kit contains two connectors and one card. Assembly required.

**Protocols Supported**

PCI Express®  
 XAUI, SATA

Download app notes at [www.samtec.com/appnote](http://www.samtec.com/appnote)  
 Contact SIG @ [samtec.com](mailto:samtec.com) for questions on protocols

Mates with: HSEC8

## SPECIFICATIONS

For complete specifications see [www.samtec.com?HSC8](http://www.samtec.com?HSC8)

**Conductor:** 1/2 oz Copper  
**Contact Area:** Hard Gold Plated  
**Insulator:** FR-4  
**RoHS Compliant:** Yes

NO. OF POSITIONS PER SIDE	-SE TOTAL SIGNAL LINES	-DP TOTAL SIGNAL PAIRS
-040	40	26
-050	50	32
-060	60	38

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

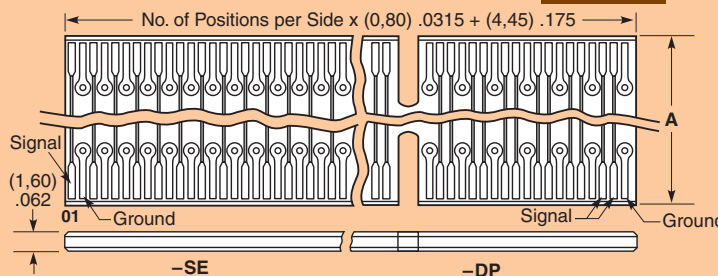
## HSC8 - NUMBER OF POSITIONS PER SIDE - CARD STYLE - STACK HEIGHT - SIGNAL ROUTING

**-040, -050, -060**

**-02**  
= (1,60mm) .062" thick card

**-19**  
= (19mm) .748"  
**-25**  
= (25mm) .984"  
**-30**  
= (30mm) 1.180"

**-SE**  
= Single-Ended  
**-DP**  
= Differential Pair



STACK HEIGHT	A
-19	(14,84) .584
-25	(20,84) .820
-30	(25,84) 1.017

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

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