



HSC8-050-02-19-DP

RU8-160-25-SE-L-DV-BL

**RU8, HSC8 SERIES**

**(0.80 mm) .0315"**

# HIGH-SPEED RISER CARD KIT

## SPECIFICATIONS

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

## CONNECTOR

**Insulator Material:**  
Black LCP  
**Contact:**  
BeCu  
**Plating:**  
Au or Sn over  
50 μm (1.27 μm) Ni  
**Current Rating:**  
3.1 A per pin  
(6 adjacent pins powered)  
**Operating Temp:**  
-55 °C to +125 °C



## PROCESSING

**Lead-Free Solderable:** Yes  
**SMT Lead Coplanarity:**  
(0.10 mm) .004" max (40-60)  
**RoHS Compliant:** Yes

## RECOGNITIONS

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



**Note:** While optimized for 50 Ω applications, this connector with alternative signal/ground patterns may also perform well in certain 75 Ω applications.

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

**40, 50, 60**  
Kit contains two connectors and one card. Assembly required.

**-19**  
= (19 mm) .748"

**-25**  
= (25 mm) .984"

**-30**  
= (30 mm) 1.180"

**-SE**  
= Single-Ended

**-DP**  
= Differential Pair

**-L**  
= 10 μm (0.25 μm) 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)

**-K**  
= (5.50 mm) .217" DIA Polyimide Film Pick & Place Pad

**-TR**  
= Tape & Reel

**Note:** Other Gold plating options available.

NO. OF POSITIONS PER SIDE	A	B	-SE TOTAL SIGNAL LINES	-DP TOTAL SIGNAL PAIRS
40	(39.80) 1.567	(51.05) 2.010	40	26
50	(47.80) 1.882	(59.05) 2.325	50	32
60	(55.80) 2.197	(67.05) 2.640	60	38

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

**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

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

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

**-02**  
= (1.60 mm) .062" thick card

**-19**  
= (19 mm) .748"

**-25**  
= (25 mm) .984"

**-30**  
= (30 mm) 1.180"

**-SE**  
= Single-Ended

**-DP**  
= Differential Pair

STACK HEIGHT	A
-19	(14.84) .584
-25	(20.84) .820
-30	(25.84) 1.017

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

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

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

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.

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