

(0.80 mm) .0315"

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

HSC8-050-02-19-DP

RU8, HSC8 SERIES

HIGH SPEED RISER CARD KIT

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?RU8

Connector:

Insulator Material:

Black LCP

Contact: BeCu

Plating:

Au or Sn over

50µ" (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



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

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



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

40, 50, 60

-19
= (19 mm) .748"

-25
= (25 mm) .984"

-30
= (30 mm) 1.180"

-SE
= Single-Ended

-DP
= Differential Pair

-L
= 10µ" (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

Kit contains two connectors and one card. Assembly required.

Note: Other Gold plating options available. Contact Samtec.

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

Finalinch
CERTIFIED

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

*Performance data includes effects of a non-optimized PCB. Performance data for other stack heights and complete test data available at www.samtec.com?RU8 or contact sig@samtec.com

Diagram showing dimensions: (7.98) .314, (7.01) .276, (12.51) .492, (1.60) .062, A, B, -SE, -DP, (-19 Only), -BL (Required with -25 & -30)

Mates with:

HSEC8

SPECIFICATIONS

For complete specifications see 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
= (1.60 mm) .062" thick card

-19
= (19 mm) .748"

-25
= (25 mm) .984"

-30
= (30 mm) 1.180"

-SE
= Single-Ended

-DP
= Differential Pair

Diagram showing dimensions: No. of Positions per Side x (0.80) .0315 + (4.45) .175, (1.60) .062, 01, Ground, Signal, -SE, -DP, A

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