

Samtec Connector Bandwidth Performance Selector

Standard Configuration - Single-Ended Strips

Series	Pitch	Stack Height	3dB Insertion Loss Point	Series	Pitch	Stack Height	3dB Insertion Loss Point
BTE/BSE	.8mm	5mm 25mm	8.00 GHz 3.00 GHz	QMS-RA/QFS-RA- Q2™	.635mm	-RA	6.00 GHz
BTH/BSH	.5mm	5mm 16mm	9.00 GHz 5.00 GHz	QMSS/QFSS	.635mm	11mm	6.00 GHz
ERM5/ERF5	.5mm	7mm 10mm	10.50 GHz 9.00 GHz	QRM8/QRF8 - Q Rate®	.8mm	7mm 10mm	9.50 GHz 8.50 GHz
ERM8/ERF8	.8mm	7mm 10mm 16mm	10.50 GHz 8.00 GHz 5.50 GHz	QRM8-RA/QRF8	.8mm	-RA	5.50 GHz
ERM8-EM/ERF8	.8mm	-EM	7.50 GHz	QRM8-RA/QRF8-RA	.8mm	-RA	4.50 GHz
ERM8-RA/ERF8	.8mm	-RA	9.50 GHz	QTE/QSE - Q Strips®	.8mm	5mm 8mm 11mm 16mm 19mm 25mm	9.00 GHz 5.00 GHz 6.50 GHz 5.00 GHz 5.00 GHz 4.00 GHz
ERM8-RA/ERF8-RA	.8mm	-RA	8.00 GHz	QTH/QSH - Q Strips®	.5mm	5mm 8mm 11mm 16mm 30mm	9.00 GHz 8.50 GHz 6.00 GHz 5.00 GHz 3.00 GHz
HSEC8-DV	.8mm	7.98mm	8.00 GHz	QTS/QSS - Q Strips®	.635mm	5mm 11mm 16mm	9.00 GHz 6.00 GHz 5.00 GHz
HSEC8-RA	.8mm	7.98mm	6.50 GHz	QTS-RA/QSS - Q Strips®	.635mm	-RA	5.50 GHz
LSHM	.5mm	5mm 12mm	11.50 GHz 7.50 GHz	QTS-RA/QSS-RA - Q Strips®	.635mm	-RA	4.50 GHz
LSHM-DH/LSHM-DV	.5mm		7.00 GHz+	RU8 - Rise Up®	.8mm	25mm	7.50 GHz
LSS	.635mm	6mm 8mm 10mm 12mm	10.00 GHz 8.00 GHz 7.50 GHz 7.00 GHz	SAL1	1mm	top bottom	8.50 GHz 8.50 GHz
LTH/LSH	.5mm	2.31mm	7.50 GHz	ST4/SS4	.4mm	4mm	7.00 GHz
MEC1-DV	1mm	9.19mm	5.50 GHz	TEM/SEM	.8mm	6mm 10mm	12.00 GHz+ 14.50 GHz
MEC1-RA	1mm	6.81mm	4.50 GHz	TEM-DH/SEM	.8mm	6mm	14.00 GHz+
MEC6-DV	.635mm	8.65mm	7.50 GHz				
MEC6-RA	.635mm	5.78mm	7.00 GHz				
MEC8-DV	.8mm	8.65mm	7.00 GHz				
MEC8-RA	.8mm	5.77mm	6.50 GHz				
MIT/MIS	.635mm	5mm 22mm	8.50 GHz 4.00 GHz				
MTCA	.75mm		12.00 GHz+				
QDM8/QDF8 - Q Rate®	.8mm	7mm	>20.00 GHz+				
QMS/QFS - Q2™	.635mm	10mm 11mm 16mm	9.00 GHz 8.00 GHz 6.00 GHz				
QMS-RA/QFS - Q2™	.635mm	-RA	8.00 GHz				

The information contained in this chart does not represent the potential maximum performance of the interconnect system. If your application appears to exceed the connector's rating from the chart above, the connector solution may still work. Please contact our Signal Integrity Group at sig@samtec.com for additional support.

The data reflects the point where an insertion loss of 3dB occurs within the connector. The data is based from a test circuit with a characteristic impedance of 50 ohm single-ended and a wiring pattern of G-S-G (where G = return; S = active single line) within the pin field of the connector. Please note that performance may not be linear to stack height.

For more information on any of the products included in this chart, click on the series name in the Key to get complete testing information, visit our website at www.samtec.com, or contact our Signal Integrity Group at sig@samtec.com. Click here for more information on our High Speed Characterization Report Test Procedures.

+ DOES NOT INCLUDE TEST BOARD EFFECTS

Samtec Connector Bandwidth Performance Selector

Standard Configuration - Single-Ended

Arrays				RF Connectors			
Series	Pitch	Stack Height	3dB Insertion Loss Point	Series	Pitch	Stack Height	3dB Insertion Loss Point
HDAM/HDAF - HD Mezz	1.2mm	20mm	9.50 GHz***	GRF1			10.00 GHz
		25mm	8.50 GHz	IP5/IJ5			10.50 GHz
		30mm	10.00 GHz				
		35mm	9.00 GHz				
SEAM/SEAF - SEARAY™	.050"	7mm	9.50 GHz	MBNC7-TH			3.50 GHz
		10mm	9.00 GHz				
		12mm	7.50 GHz				
		16mm	7.00 GHz				
SEAM-RA/SEAF-RA	.050"	-RA	5.00 GHz				
SEAM-DV/SEAF-RA	.050"	-RA	4.50 GHz				
YFS/YFT - Sam Array®	.050"	5mm	3.50 GHz*				

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The data reflects the point where an insertion loss of 3dB occurs within the connector. The data is based from a test circuit with a characteristic impedance and a wiring pattern of G-S-G (where G = return; S = active differential pair) within the pin field of the connector. Please note that performance may not be linear to stack height.

For more information on any of the products included in this chart, click on the series name in the Key to get complete testing information, visit our website at www.samtec.com, or contact our Signal Integrity Group at sig@samtec.com. Click here for more information on our High Speed Characterization Report Test Procedures.

***HD Mezz is a trademark of Molex Incorporated

**Based on +/- 10% impedance/cross talk

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