

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	MIS/MIT	.635mm	5mm 22mm	8.50 GHz 4.00 GHz
BTH/BSH	.5mm	5mm 16mm	9.00 GHz 5.00 GHz	QFS/QMS - Q2™	.635mm	10mm 11mm 16mm	9.00 GHz 8.00 GHz 6.00 GHz
ERM5/ERF5	.5mm	7mm 10mm	10.50 GHz 9.00 GHz	QFS/QMS-RA - Q2™	.635mm	-RA	8.00 GHz
ERM8/ERF8	.8mm	7mm 10mm 16mm	10.50 GHz 8.00 GHz 5.50 GHz	QFS-RA/QMS-RA- Q2™	.635mm	-RA	6.00 GHz
ERM8-EM/ERF8	.8mm	-EM	7.50 GHz	QRM8/QRF8 - Q Rate®	.8mm	7mm 10mm	9.50 GHz 8.50 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
FTSH/FW/CLP	.050"	5.13mm 17.7mm	7.00 GHz 3.00 GHz	QTS/QSS - Q Strips®	.635mm	5mm 11mm 16mm	9.00 GHz 6.00 GHz 5.00 GHz
HSEC8-DV	.8mm	7.98mm	8.00 GHz	QTS-RA/QSS - Q Strips®	.635mm	-RA	5.50 GHz
HSEC8-RA	.8mm	7.98mm	6.50 GHz	QTS-RA/QSS-RA - Q Strips®	.635mm	-RA	4.50 GHz
LSS	.635mm	6mm 8mm 10mm 12mm	10.00 GHz 8.00 GHz 7.50 GHz 7.00 GHz	RU8 - Rise Up®	.8mm	25mm	7.50 GHz
LTH/LSH	.5mm	2.31mm	7.50 GHz	SAL1	1mm	top bottom	8.50 GHz 8.50 GHz
MEC1-DV	1mm	9.19mm	5.50 GHz	SFM/TFM	.050"	6.35mm 11.81mm	6.00 GHz 4.00 GHz
MEC1-RA	1mm	6.81mm	4.50 GHz	SS4/ST4	.4mm	4mm	7.00 GHz
MEC6-DV	.635mm	8.65mm	7.50 GHz	TMMH/TW/CLT	2mm	4.77mm 18mm	5.50 GHz 2.50 GHz
MEC6-RA	.635mm	5.78mm	7.00 GHz	TOLC/SOLC	.025"	6.35mm 12mm	7.00 GHz 5.50 GHz
MEC8-DV	.8mm	8.65mm	7.00 GHz				
MEC8-RA	.8mm	5.77mm	6.50 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.

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

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Arrays				RF Connectors	
Series	Pitch	Stack Height	3dB Insertion Loss Point	Series	3dB Insertion Loss Point
HDAM/HDAF - HD Mezz ^{***}	1.2mm	20mm	9.50 GHz	GRF1	10.00 GHz
		25mm	8.50 GHz		
		30mm	10.0 GHz	IP5/IJ5	10.50 GHz
		35mm	9.00 GHz		
SEAM/SEAF - SEARAY [™]	.050"	7mm	9.50 GHz		
		10mm	9.00 GHz		
		12mm	7.50 Ghz		
		16mm	7.00 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.

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* Based on Final Inch simulations

***HD Mezz is a trademark of Molex Incorporated