

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	8.00 GHz	QFS/QMS-RA - Q2™	.635mm	-RA	8.00 GHz
		25mm	3.00 GHz				
BTH/BSH	.5mm	5mm	9.00 GHz	QFS-RA/QMS-RA- Q2™	.635mm	-RA	6.00 GHz
		16mm	5.00 GHz				
ERM8/ERF8	.8mm	7mm	10.50 GHz	QFSS/QMSS - Q2™	.635mm	11mm	2.30 GHz**
		10mm	8.00 GHz				
		16mm	5.50 GHz				
ERM8-EM/ERF8	.8mm	-EM	7.50 GHz	QRM8/QRF8 - Q Rate®	.8mm	7mm	9.50 GHz
						10mm	8.50 GHz
ERM8-RA/ERF8	.8mm	-RA	9.50 GHz	QTE/QSE - Q Strips®	.8mm	5mm	9.00 GHz
						8mm	5.00 GHz
						11mm	6.50 GHz
ERM8-RA/ERF8-RA	.8mm	-RA	8.00 GHz	QTH/QSH - Q Strips®	.5mm	5mm	9.00 GHz
						8mm	8.50 GHz
						11mm	6.00 GHz
FTSH/FW/CLP	.050"	5.13mm	7.00 GHz	QTS/QSS - Q Strips®	.635mm	5mm	9.00 GHz
		17.7mm	3.00 GHz				
HSEC8-DV	.8mm	7.98mm	8.00 GHz	RU8 - Rise Up®	.8mm	25mm	7.50 GHz
LSS	.635mm	6mm	10.00 GHz	SAL1	1mm	top	8.50 GHz
		8mm	8.00 GHz			bottom	8.50 GHz
		10mm	7.50 GHz				
		12mm	7.00 GHz				
MEC1-DV	1mm	9.19mm	5.50 GHz	SFM/TFM	.050"	6.35mm	6.00 GHz
MEC1-RA	1mm	6.81mm	4.50 GHz			11.81mm	4.00 GHz
MEC6-DV	.635mm	8.65mm	7.50 GHz	SS4/ST4	.4mm	4mm	7.00 GHz
MEC6-RA	.635mm	5.78mm	7.00 GHz				
MEC8-DV	.8mm	8.65mm	7.00 GHz	TMMH/TW/CLT	2mm	4.77mm	5.50 GHz
MEC8-RA	.8mm	5.77mm	6.50 GHz			18mm	2.50 GHz
MIS/MIT	.635mm	5mm	8.50 GHz	TOLC/SOLC	.025"	6.35mm	7.00 GHz
		22mm	4.00 GHz			12mm	5.50 GHz
QFS/QMS - Q2™	.635mm	10mm	9.00 GHz				
		11mm	8.00 GHz				
		16mm	6.00 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 a -3dB insertion loss 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		
		35mm	9.00 GHz		
SEAM/SEAF - SEARAY[™]	.050"	7mm	9.50 GHz		
		10mm	9.0 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 a -3dB insertion loss 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