

RAZOR BEAM™

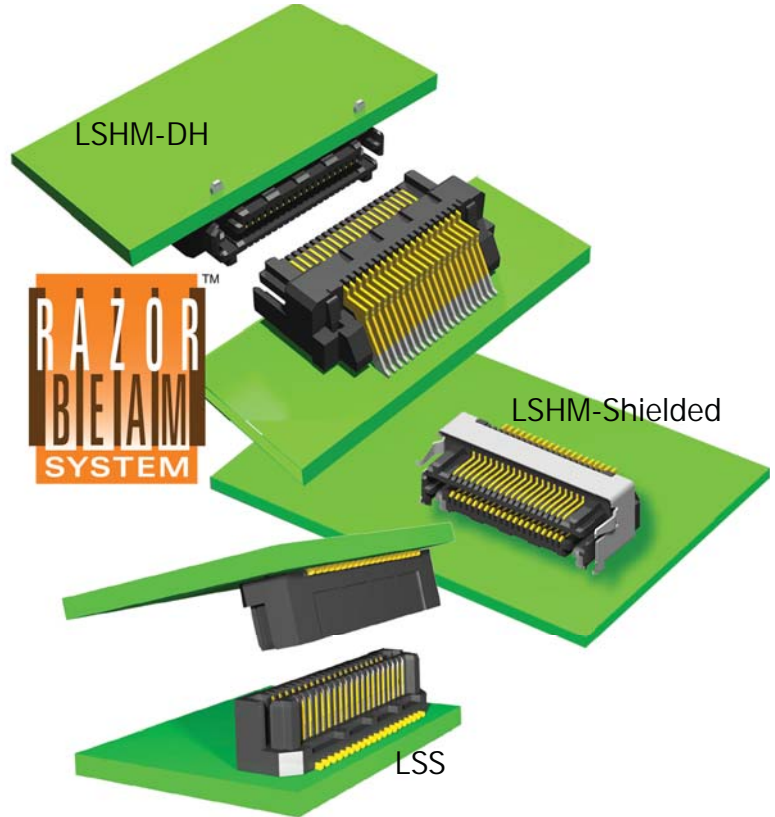
Ultra-fine pitch, slim, and low profile design saves PCB real estate.

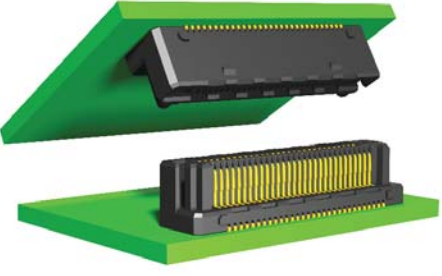
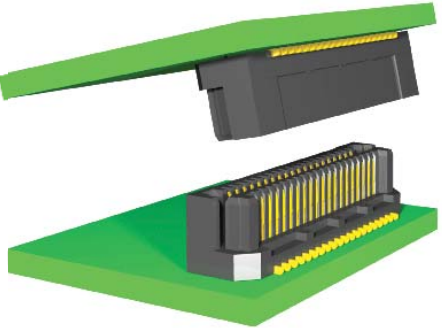
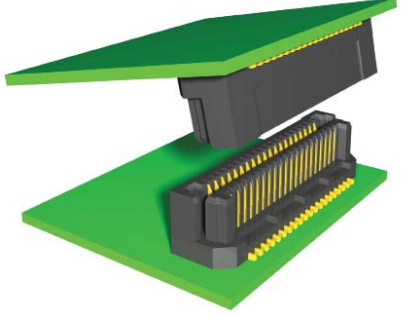
Razor Beam™ Interconnects save PCB real estate on the X, Y, and Z axis with their ultra-fine pitch, slim, low profile design. Razor Beam™ connectors are currently available in .5mm pitch ([LSHM Series](#)), .635mm pitch ([LSS Series](#)), and .8mm pitch ([LSEM Series](#)).

Razor Beam™ contacts are designed to help to create high speed, fine pitch, yet rugged interconnects. Mating contacts feature undercut retention notches that produce an audible click when the contacts engage; this also increases the withdrawal force of the connectors. For example, the unmating force of the LSS Series is rated at 25 lbs.

Razor Beam™ connectors are well suited for high speed applications with performance up to 11.5 GHz at -3dB insertion loss. For applications where EMI is an issue the LSHM Series is available with optional shielding.

Razor Beam™ interconnects are available in a variety of stack heights from 5mm - 12mm. The LSEM and LSHM Series are available in both dual vertical and dual horizontal orientations for parallel, perpendicular, and coplanar applications.



.5mm Hermaphroditic Connector	.635mm Hermaphroditic Connector	.8mm Hermaphroditic Connector (In Design)
LSHM Series	LSS Series	LSEM Series
		
Pitch: .5mm Stack Heights (mm): 5, 5.5, 6, 6.5, 7, 8, 8.5, 9, 10, 12 Performance: Single Ended - 11.5 GHz, (5mm Stack Height) Differential Pair - 7.0 GHz (5mm Stack Height) Orientation: DV & DH Options: Shielding	Pitch: .635mm Stack Heights (mm): 6, 7, 8, 9, 10, 12 Performance: Single Ended - 10.0 GHz (6mm Stack Height) Differential Pair - 9.0 GHz (6mm Stack Height)	Pitch: .8mm Stack Height (mm): 6, 7, 8, 9, 10, 12 Performance: TBD Orientation: DV & DH

For additional information, feel free to contact our Signal Integrity Group at SIG@samtec.com. Check out our [RazorBeam™ Video](#) in our Media Room.