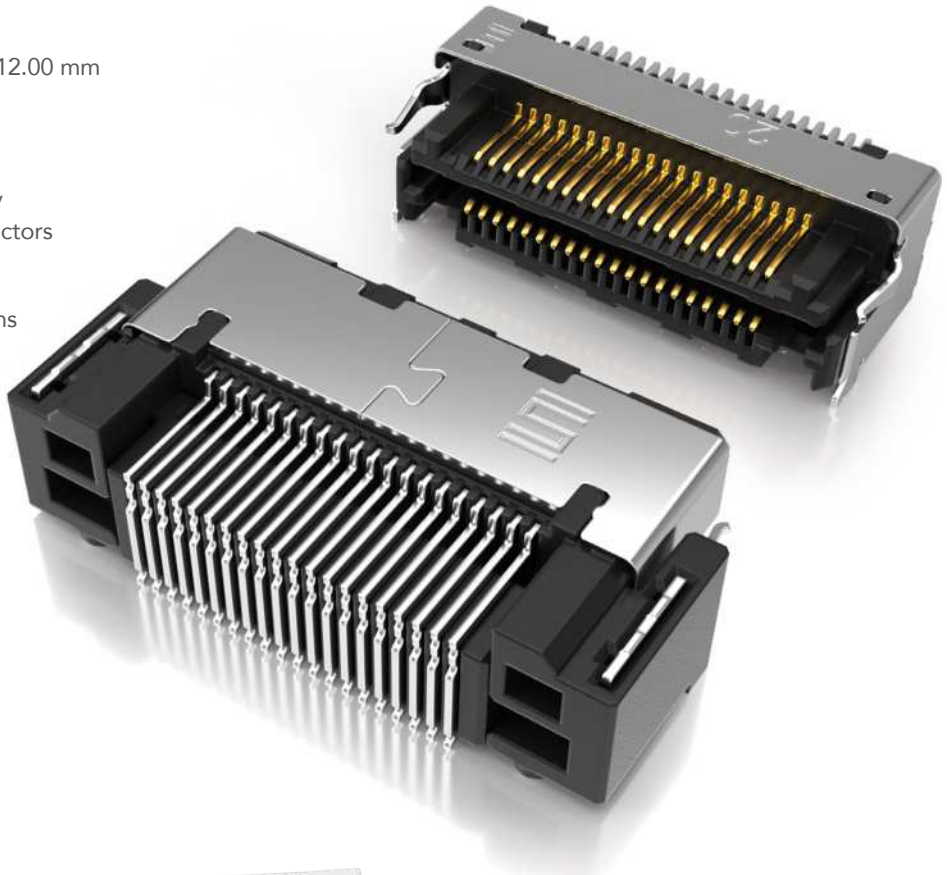
RAZOR™ BEAM SYSTEM

FINE PITCH SELF MATING CONNECTORS

0.50 mm, 0.635 mm and 0.80 mm PITCH

FEATURES & BENEFITS

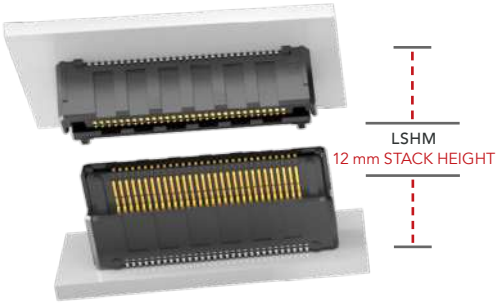
- Ten stack height options from 5.00 mm to 12.00 mm
- 0.50 mm, 0.635 mm or 0.80 mm pitches
- Audible click when mated
- Mating and unmating forces approximately 4-6x greater than typical micro pitch connectors
- Self-mating system reduces inventory cost
- Parallel, perpendicular and coplanar systems
- Shielded and lubricated options
- Severe Environment Testing qualified (LSHM); aligns with MIL-DTL-55302. Visit samtec.com/set

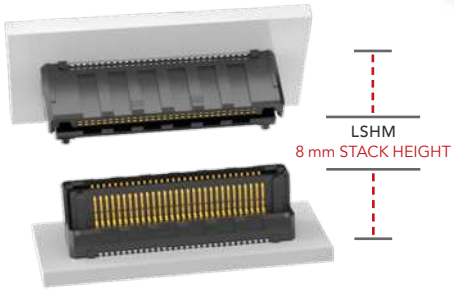


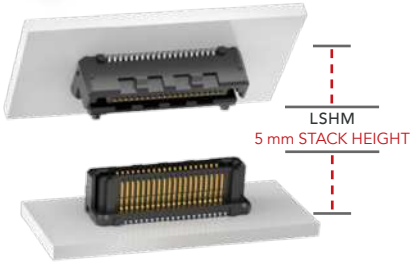
SLIM BODY DESIGNS

(40 total positions each)









KEY SPECIFICATIONS

INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	SMT COPLANARITY	LEAD-FREE SOLDERABLE
Black LCP	Phosphor Bronze	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	LSHM: 2.0 A per pin LSS: 1.7 A per pin LSEM: 1.8 A per pin	LSHM: 160 VAC/226 VDC LSS: 300 VAC/424 VDC LSEM: 225 VAC/318 VDC	(0.10 mm) .004" max	Yes

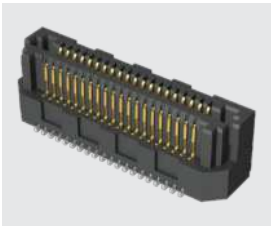
Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

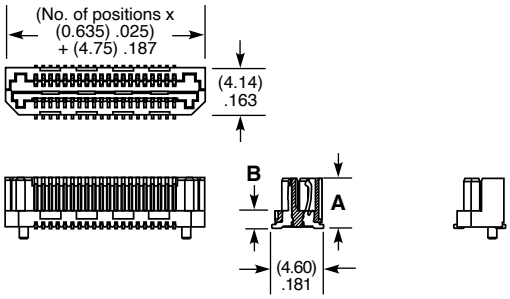
RAZOR™ BEAM SYSTEM

25 Gbps

(0.635 mm) .025" PITCH • RUGGED HERMAPHRODITIC CONNECTORS

LSS	-	1	NO. PINS PER ROW	-	LEAD STYLE	-	PLATING OPTION	-	DV	-	A	-	OPTION	-	"X"R
			10, 20, 30, 40, 50		Specify LEAD STYLE from chart		–F = Gold flash on contact, Matte Tin on tail –L = =10 µ" (0.25 µm) Gold on contact, Matte Tin on tail						–K = (3.50 mm) .138" DIA Polyimide film Pick & Place Pad		Leave blank for Tray Packaging –TR = Tape & Reel –FR = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)





LEAD STYLE	A	B
–01	(4.45) .1752	(1.59) .0628
–02	(7.45) .2933	(4.59) .1808
–03	(5.45) .2146	(2.59) .1021

LEAD STYLE	MATED HEIGHT *
-01 & -01	(6.00) .236
-01 & -03	(7.00) .276
-03 & -03	(8.00) .315
-01 & -02	(9.00) .354
-02 & -03	(10.00) .394
-02 & -02	(12.00) .472

*Processing conditions will affect mated height.

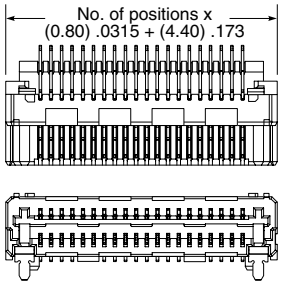
View complete specifications at: samtec.com?LSS

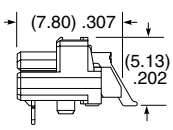
(0.80 mm) .0315" PITCH • RUGGED HERMAPHRODITIC CONNECTORS

LSEM	-	1	NO. PINS PER ROW	-	LEAD STYLE	-	PLATING OPTION	-	TAIL OPTION	-	A	-	N	-	K	-	"X"R
			20, 30, 40, 50		Specify LEAD STYLE from chart		–F = Gold flash on contact, Matte Tin on tail –L = =10 µ" (0.25 µm) Gold on contact, Matte Tin on tail		–DV = Vertical –DH = Right-angle (Lead style –01 only)						–K = (3.50 mm) .138" DIA Polyimide film Pick & Place Pad		–TR = Tape & Reel –FR = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)



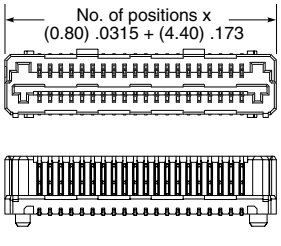
LEAD STYLE	A	B
–01 (–DH only)	N/A	NA
–03.0	(4.45) .175	(1.50) .059
–04.0	(5.45) .215	(2.50) .098
–06.0	(7.45) .293	(4.50) .177

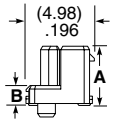




Note:
Some lengths, styles and options are non-standard, non-returnable.

-DH





-DV

LEAD STYLE	MATED HEIGHT *
-03.0 & -03.0	(6.00) .236
-03.0 & -04.0	(7.00) .276
-04.0 & -04.0	(8.00) .315
-03.0 & -06.0	(9.00) .354
-04.0 & -06.0	(10.00) .394
-06.0 & -06.0	(12.00) .472

*Processing conditions will affect mated height.

View complete specifications at: samtec.com?LSEM

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.