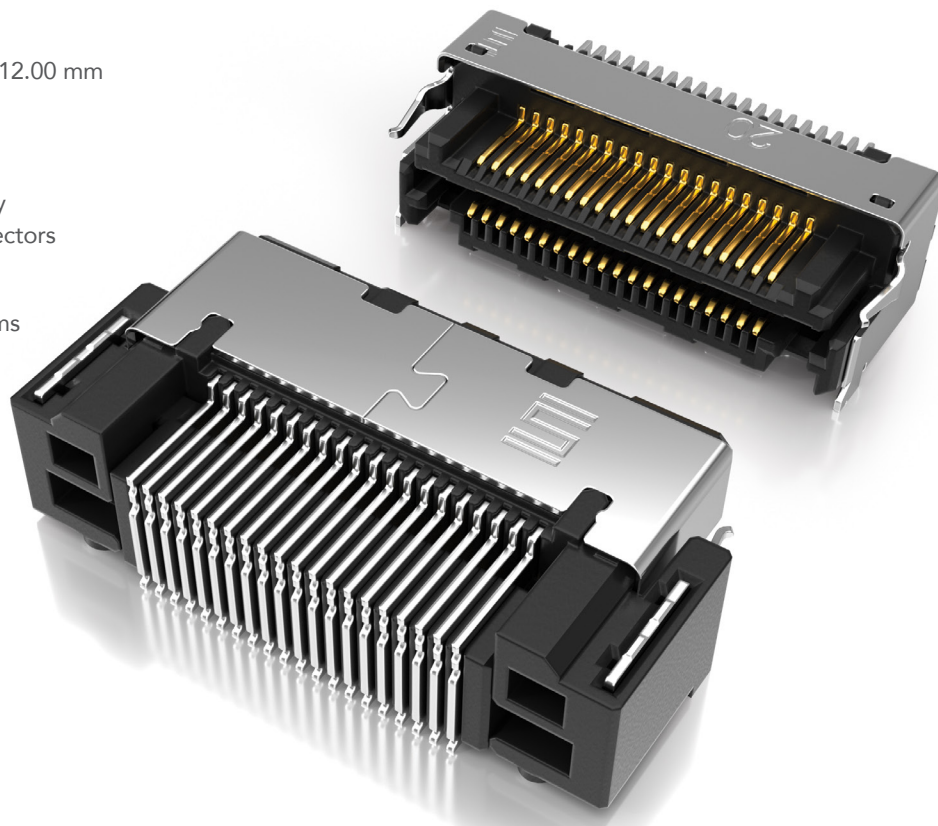


FINE PITCH SELF MATING CONNECTORS

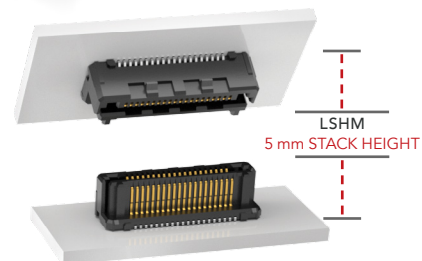
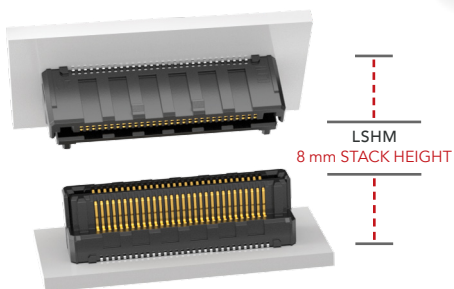
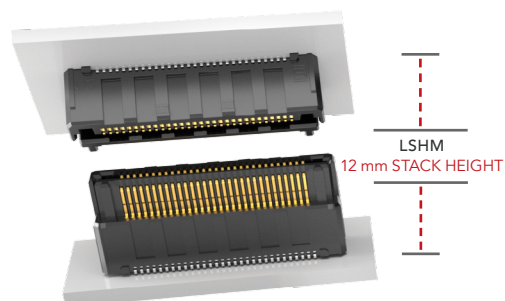
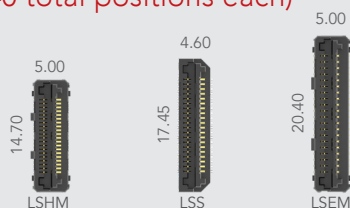
0.50 mm, 0.635 mm and 0.80 mm PITCH

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 μ m) 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

(0.50 mm) .0197" PITCH • RUGGED HERMAPHRODITIC CONNECTORS

LSHM	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	TAIL OPTION	A	SHIELD OPTION	K	"X"R
------	---	------------------	------------	----------------	-------------	---	---------------	---	------

05, 10, 20,
30, 40, 50

(Vertical)
Specify
LEAD
STYLE
from
chart

-F
= Gold flash
on contact,
Matte Tin on tail

-DV
= Vertical

-S
= With
Shield

-K
= (3.50 mm)
.138" DIA
Polyimide
film Pick &
Place Pad

-TR
= Tape &
Reel

LSHM

Board Mates:

LSHM

Cable Mates:

HLCD

(Right-angle)

-01

= Standard

(Right-angle)

-L1

= Lubricated

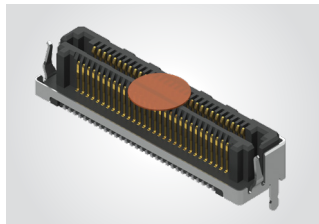
-L
= 10 μ" (0.25 μm)
Gold on contact,
Matte Tin on tail

-DH
= Right-angle
(Lead style -01
& -L1 only)

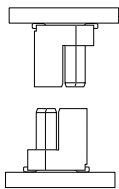
-N
= Without
Shield

-RH
= Reverse
Right-angle
(Lead style -01
& -L1 only)

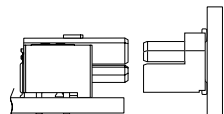
-FR
= Full Reel
Tape & Reel
(must order
maximum
quantity
per reel;
contact
Samtec for
quantity
breaks)



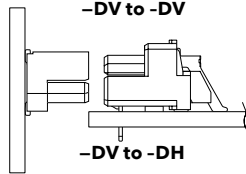
APPLICATION



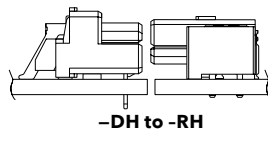
-DV to -DV



-RH to -DV



-DV to -DH

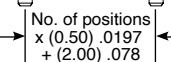


-DH to -RH

No. of positions x
(0.50) .0197
+ (4.70) .185



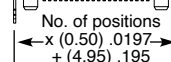
No. of positions
x (0.50) .0197
+ (2.00) .078



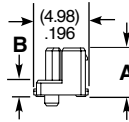
-DV-N



No. of positions
x (0.50) .0197
+ (4.95) .195



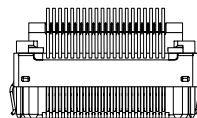
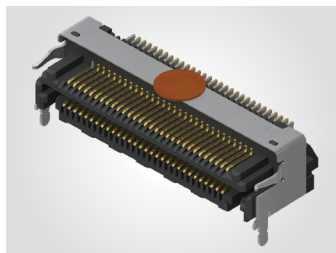
-DV-S



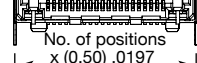
LEAD STYLE	MATED HEIGHT *
-02.5 & -02.5	(5.00) .196
-02.5 & -03.0	(5.50) .217
-03.0 & -03.0	(6.00) .236
-02.5 & -04.0	(6.50) .256
-03.0 & -04.0	(7.00) .276
-04.0 & -04.0	(8.00) .315
-02.5 & -06.0	(8.50) .335
-03.0 & -06.0	(9.00) .354
-04.0 & -06.0	(10.00) .394
-06.0 & -06.0	(12.00) .472

*Processing conditions will affect mated height.

LEAD STYLE (STANDARD)	LEAD STYLE (LUBRICATED)	A	B
-02.5	-L2.5	(3.95) .156	(1.00) .039
-03.0	-L3.0	(4.45) .175	(1.50) .059
-04.0	-L4.0	(5.45) .215	(2.50) .098
-06.0	-L6.0	(7.45) .293	(4.50) .177



No. of positions
x (0.50) .0197
+ (4.95) .195

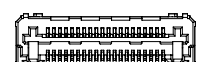


-DH-S

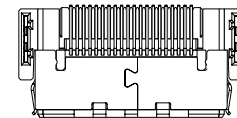
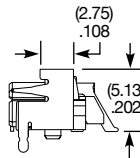
No. of positions
x (0.50) .0197
+ (4.70) .185



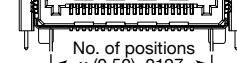
No. of positions
x (0.50) .0197
+ (1.90) .074



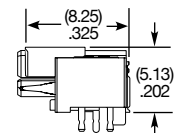
-DH-N



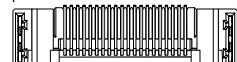
No. of positions
x (0.50) .0197
+ (2.65) .104



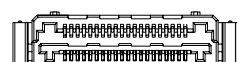
-RH-S



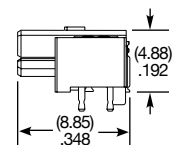
No. of positions
x (0.50) .0197
+ (7.70) .303



No. of positions
x (0.50) .0197
+ (6.60) .259



-RH-N



Notes:
Severe Environment Testing
qualified; aligns with MIL-DTL-55302.
Visit samtec.com/set

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

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[LSHM-040-02.5-L-DV-A](#) [LSHM-050-03.0-L-DV-A](#) [LSHM-020-04.0-L-DV-A-N-K-TR](#) [LSHM-050-03.0-L-DV-A-N](#) [LSHM-](#)
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[040-06.0-L-DV-A](#) [LSHM-020-02.5-L-DV-A-N](#) [LSHM-030-04.0-L-DV-A-N](#) [LSHM-030-06.0-L-DV-A](#) [LSHM-050-06.0-L-](#)
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[A](#) [LSHM-030-03.0-L-DV-A](#) [LSHM-030-03.0-L-DV-A-N](#) [LSHM-040-06.0-L-DV-A-N](#) [LSHM-030-04.0-L-DV-A](#) [LSHM-040-](#)
[03.0-L-DV-A](#) [LSHM-050-02.5-L-DV-A](#) [LSHM-050-02.5-L-DV-A-N-K-TR](#) [LSHM-030-02.5-L-DV-A-N-K-TR](#) [LSHM-030-](#)
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