

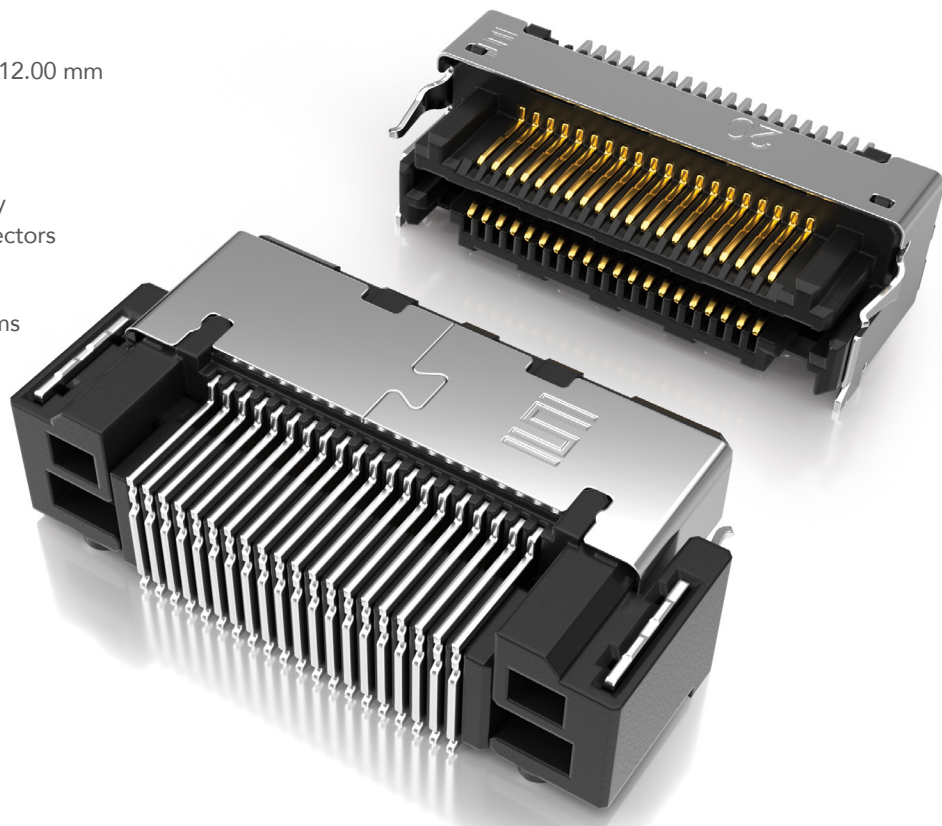
FINE PITCH SELF MATING CONNECTORS

0.50 mm, 0.635 mm and 0.80 mm PITCH

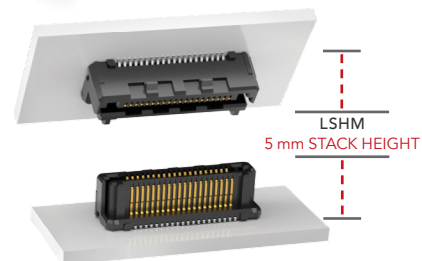
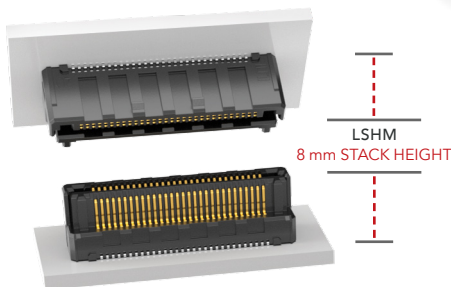
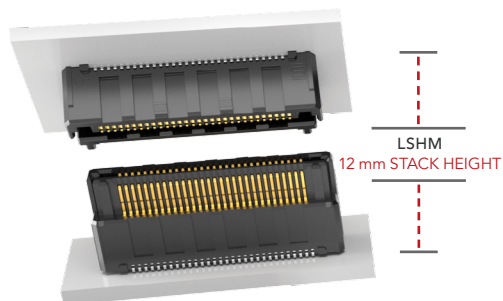
FEATURES & BENEFITS

- 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

(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

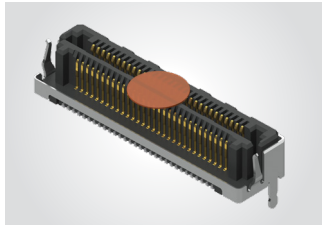
= Lubricated

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

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

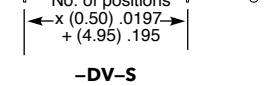
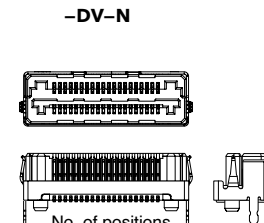
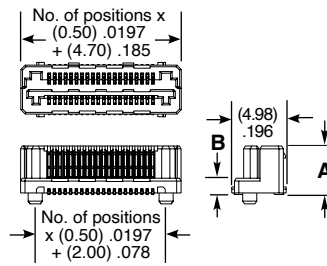
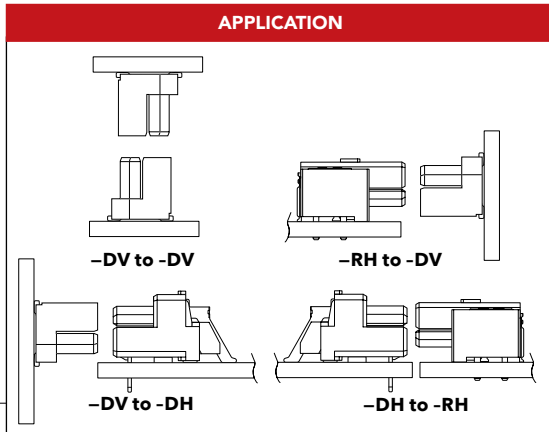
-N
= Without
Shield

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

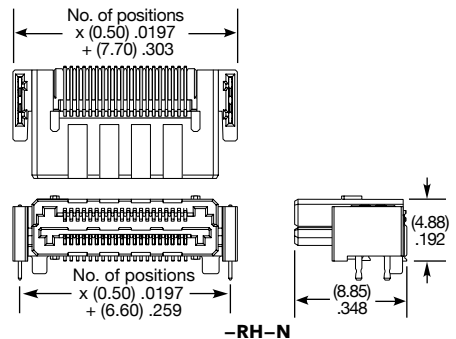
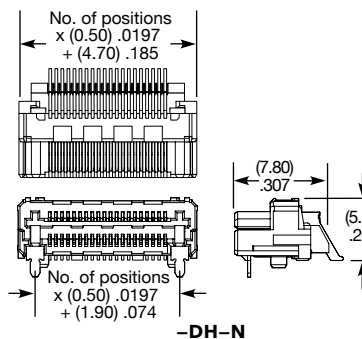
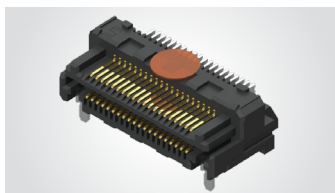
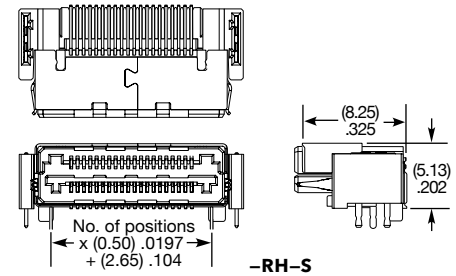
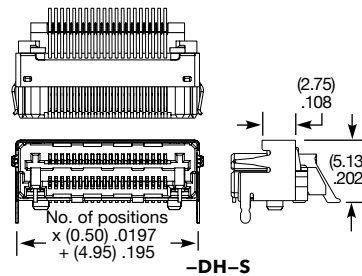
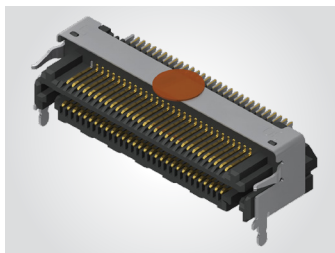


LEAD STYLE	MATED HEIGHT *
-02.5 & -02.5	(5.00) .196
-02.5 & -03.0	(5.50) .217
-03.0 & -03.0	(6.00) .236
-02.5 & -04.0	(6.50) .256
-03.0 & -04.0	(7.00) .276
-04.0 & -04.0	(8.00) .315
-02.5 & -06.0	(8.50) .335
-03.0 & -06.0	(9.00) .354
-04.0 & -06.0	(10.00) .394
-06.0 & -06.0	(12.00) .472

*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



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

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

View complete specifications at: samtec.com?LSHM