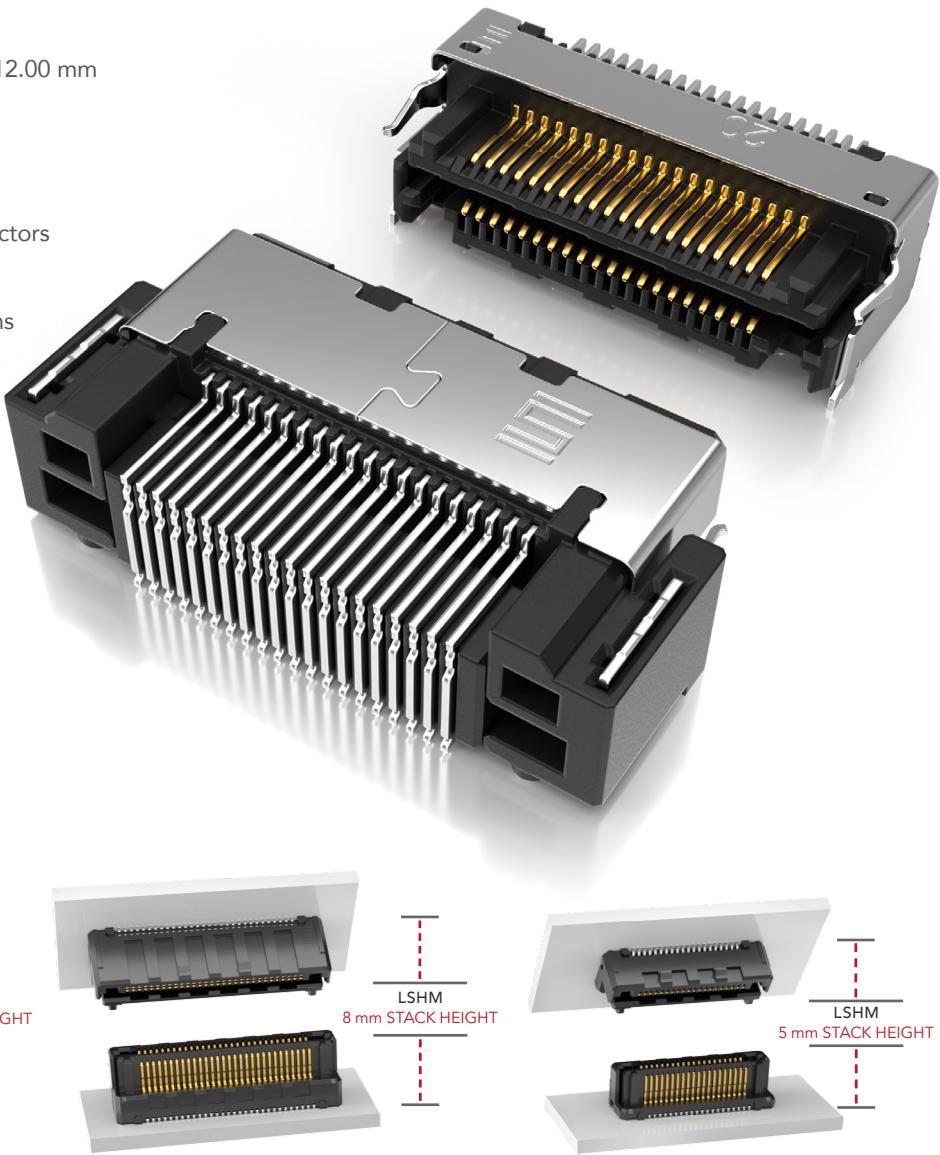


FINE PITCH SELF MATING CONNECTORS

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



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

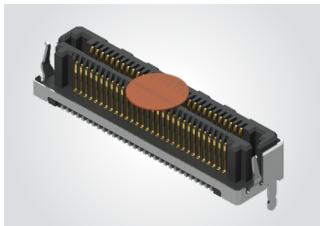
LSHM

Board Mates:

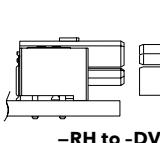
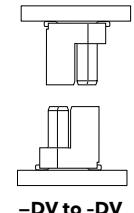
LSHM

Cable Mates:

HLCD

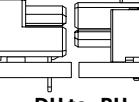
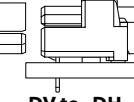


APPLICATION



-DV to -DV

-RH to -DV



-DV to -DH

-DH to -RH

(Vertical)
Specify
LEAD
STYLE
from
chart

(Right-angle)
-01
= Standard

(Right-angle)
-L1
= Lubricated

-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
& -L1 only)

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

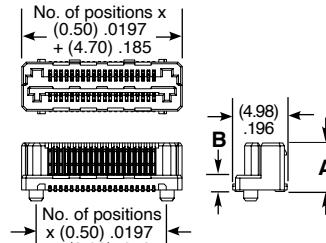
-S
= With
Shield

-N
= Without
Shield

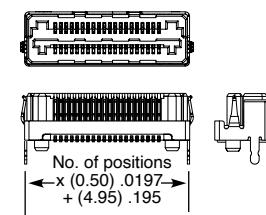
-K
= (3.50 mm)
.138" DIA
Polyimide
film Pick &
Place Pad

-TR
= Tape &
Reel

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



-DV-N

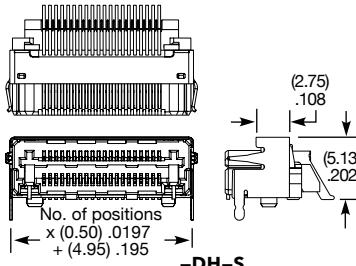
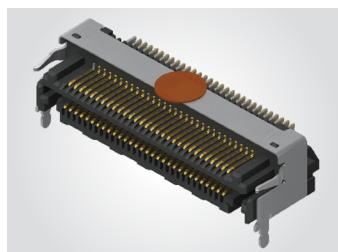


-DV-S

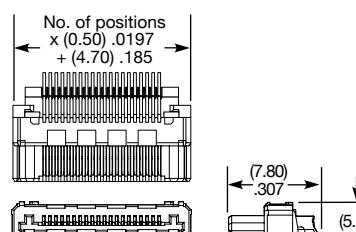
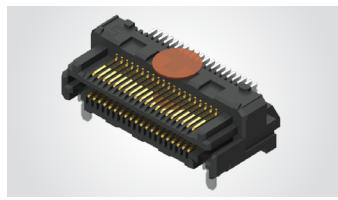
LEAD STYLE	MATED HEIGHT *
-02.5 & -02.5	(5.00) .196
-02.5 & -03.0	(5.50) .217
-03.0 & -03.0	(6.00) .236
-02.5 & -04.0	(6.50) .256
-03.0 & -04.0	(7.00) .276
-04.0 & -04.0	(8.00) .315
-02.5 & -06.0	(8.50) .335
-03.0 & -06.0	(9.00) .354
-04.0 & -06.0	(10.00) .394
-06.0 & -06.0	(12.00) .472

*Processing conditions will affect
mated height.

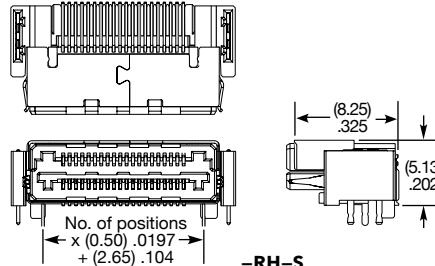
LEAD STYLE (STANDARD)	LEAD STYLE (LUBRICATED)	A	B
-02.5	-L2.5	(3.95) .156	(1.00) .039
-03.0	-L3.0	(4.45) .175	(1.50) .059
-04.0	-L4.0	(5.45) .215	(2.50) .098
-06.0	-L6.0	(7.45) .293	(4.50) .177



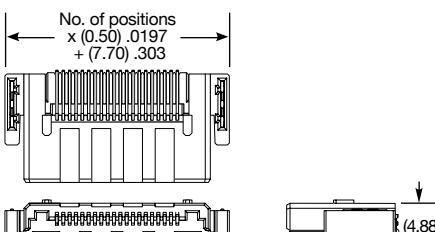
-DH-S



-DH-N



-RH-S



-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.

View complete specifications at: samtec.com?LSHM