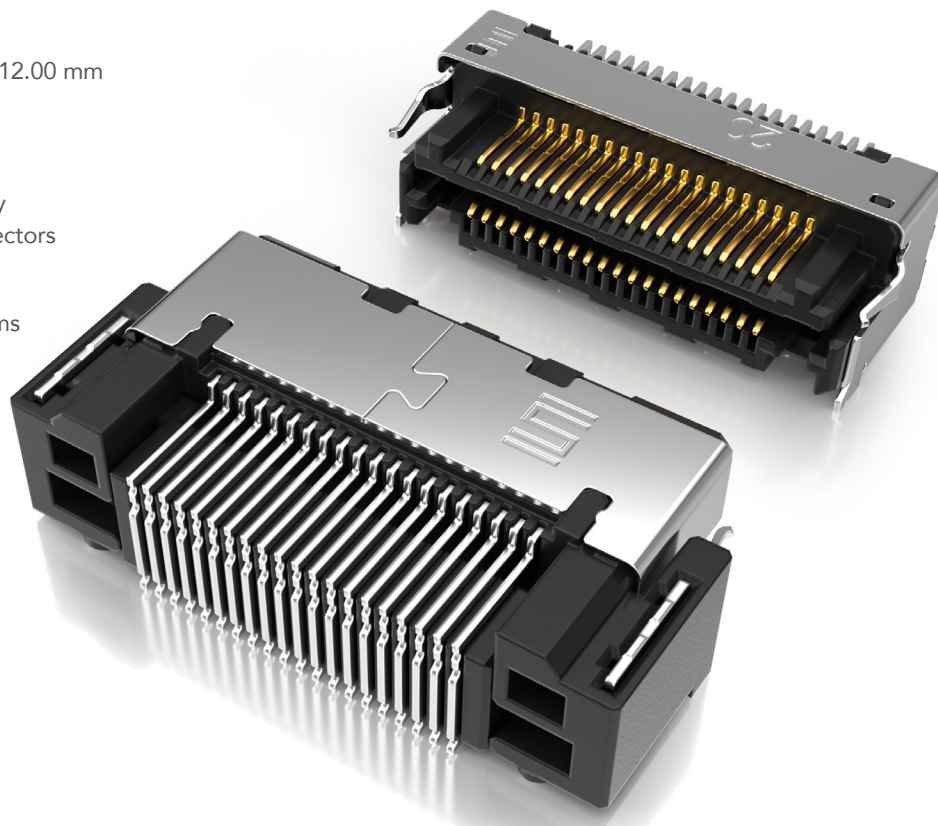


# FINE PITCH SELF MATING CONNECTORS

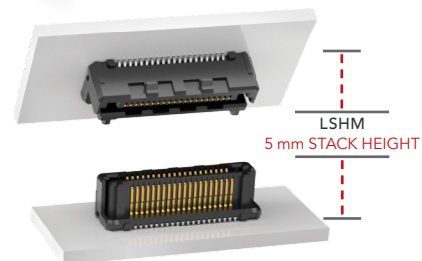
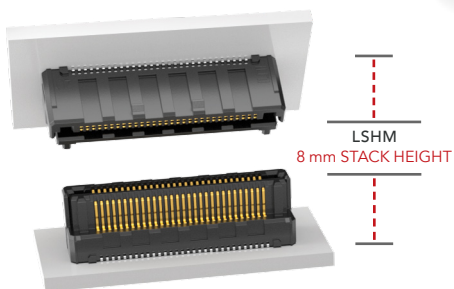
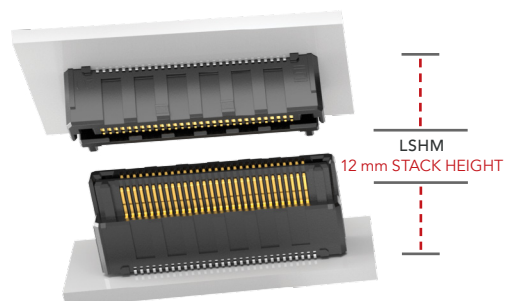
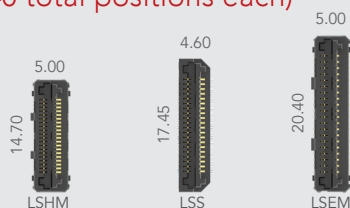
0.50 mm, 0.635 mm and 0.80 mm PITCH

## 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](http://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 $\mu$ " (1.27 $\mu$ m) Ni | -55 °C to +125 °C    | LSHM: 2.0 A per pin<br>LSS: 1.7 A per pin<br>LSEM: 1.8 A per pin | LSHM: 160 VAC/226 VDC<br>LSS: 300 VAC/424 VDC<br>LSEM: 225 VAC/318 VDC | (0.10 mm) .004" max | Yes                  |

(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

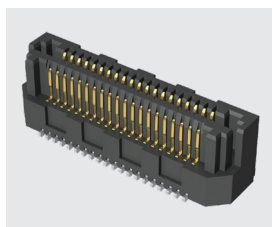
**-L**  
= 10 μ" (0.25 μm)  
Gold on contact,  
Matte Tin on tail

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

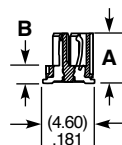
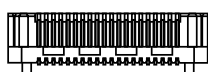
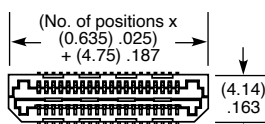
Leave blank for  
Tray Packaging

**-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](http://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

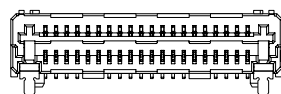
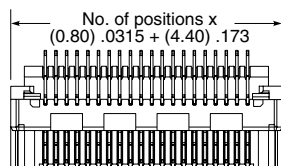
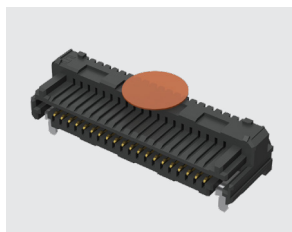
**-DV**  
= Vertical

**-DH**  
= Right-angle  
(Lead style  
-01 only)

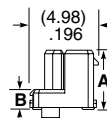
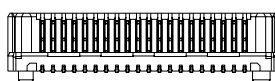
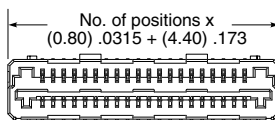
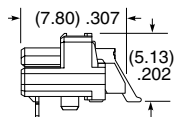
**-K**  
= (3.50 mm)  
.138" DIA  
Polyimide film  
Pick & Place Pad

**-TR**  
= Tape & Reel

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



| LEAD STYLE        | A           | B           |
|-------------------|-------------|-------------|
| -01<br>(-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 |



| 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.

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

**-DH**

**-DV**

View complete specifications at: [samtec.com?LSEM](http://samtec.com?LSEM)