

## VSM — Vertical Male

VSM signal-integrity connectors are used in vertical, PCB-mount applications where a male interface is required. Termination styles include press-fit, paste-in-hole and plated thru-hole. Pitch: 1.27 mm.



Sample Part Number Format: VSM-04-10-120-50-02-L

**VSM** -   -   -   -   - 50 -   -  

**SERIES**  
Vertical (Male)  
1.27 mm

**ROWS**  
04 – 4 Rows  
05 – 5 Rows  
06 – 6 Rows  
08 – 8 Rows  
10 – 10 Rows

**COLUMNS**  
10 – 10 Columns  
20 – 20 Columns  
30 – 30 Columns  
40 – 40 Columns  
50 – 50 Columns

**BOARD SPACING\***  
080 – 8 mm  
100 – 10 mm  
120 – 12 mm  
160 – 16 mm  
200 – 20 mm  
250 – 25 mm

**CONTACT PLATING**  
50 – 50  $\mu$  Au

**TERMINATION**  
00 – Press-fit  
01 – Paste-In-hole  
02 – PTH 0.078"  
03 – PTH 0.109"  
04 – PTH 0.140"  
05 – PTH 0.156"  
06 – PTH 0.172"  
10<sup>†</sup> – SMT - SN63PB37  
Solder Dipped  
11<sup>†</sup> – SMT -  
42Sn/57.6Bi/0.4Ag  
lead free, solder  
dipped

**OPTIONS**  
Blank – No options<sup>‡</sup>  
G – Guide pin<sup>‡</sup>  
G1 – Guide pin<sup>‡</sup>  
J – Turning jackscrew<sup>‡</sup>  
J1 – Turning jackscrew<sup>‡</sup>  
L – Locking screw<sup>‡</sup>  
L1 – Locking screw<sup>‡</sup>  
N – Fixed jacknut<sup>‡</sup>  
N1 – Fixed jacknut<sup>‡</sup>

### Notes:

See AirBorn spec ESL5001 for installation information.

Connector potting is standard.

\* Consult factory for additional board spacing options.

<sup>†</sup>Used for PC board thickness up to 0.125".

<sup>‡</sup>Used for PC board thickness 0.125" up to 0.250".

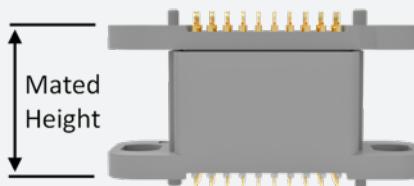
<sup>†</sup>Surface Mount Termination only available on 4 Row vertical connectors.

<sup>‡</sup>No hardware supplied with blank hardware option connectors.

AirBorn can manufacture other configurations to your exact specifications.

RoHS Compliant (except for termination option 10); certificate of conformance available upon request with each shipment.

Please view document VSM-XX-XX-XXX-XX-XX-XX on [airborn.com](http://airborn.com) before part configuration for more product specification information.



Board Spacing		Mated Height (in)
Code	Value	Nominal
080	8mm	0.315 (.350 Max)
100	10mm	0.394 (.429 Max)
120	12mm	0.472 (.507 Max)
160	16mm	0.630 (.665 Max)
200	20mm	0.787 (.822 Max)
250	25mm	0.984 (1.02 Max)

NOTE: Please consult [airborn.com](http://airborn.com) to configure your part number and for the latest revision controlled drawing and technical data.

### Reliable Contact Every Time

VerSI connectors feature a low-mating-force, high-reliability contact system with four points-of-contact.

The open-pin field design allows flexibility in termination schemes. Single-ended, differential pair, power, and ground are all available in one connector design.

