

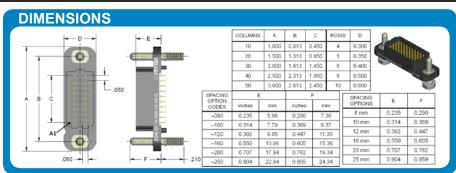




VSM - Vertical (Male)

Pitch: 1.27 mm

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, plated thru-hole, and surface-mount.



Sample Part Number Format: VSM-04-10-080-50-02-G VSM **BOARD** Vertical (Male) 04 – 4 Rows 05 – 5 Rows 10 – 10 Columns 20 – 20 Columns SPACING* **PLATING** 00 - Press-fit Blank – No options‡ G – Guide pin¹ 1.27 mm 080 - 8 mm $50 - 50 \mu'' Au$ 01 - Paste-In-hole 30 - 30 Columns 02 - PTH 0.078" G1 - Guide pin² 06 - 6 Rows 08 - 8 Rows 40 - 40 Columns 120 - 12 mm

160 - 16 mm 200 – 20 mm

250 - 25 mm

NOTES

Connector potting is standard.

- * Consult factory for additional board spacing options.
- 1 Used for PC board thickness up to 0.125"
- ² Used for PC board thickness 0.125" up to 0.250"
- † Surface Mount Termination only available on 4 Row vertical connectors.
- [‡] No hardware supplied with blank hardware option connectors.

10 - 10 Rows

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

BOARD SPACING		MATED HEIGHT (in)	
VALUE	CODE	NOMINAL	
8 mm	080	0.315	
10 mm	100	0.394	
12 mm	120	0.473	
16 mm	160	0.630	
20 mm	200	0.788	
25 mm	250	0.985	

Max allowable separation between mating faces is 0.035 inches.

03 - PTH 0.1091 04 - PTH 0.140*

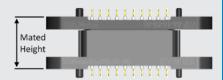
05 - PTH 0.156" 06 - PTH 0.172" 10† - SMT - SN63PB37 Solder Dipped

11† - SMT -42Sn/57.6Bi/0.4Ag lead free, solder dipped

J - Turning jackscrew¹ J1 – Turning jackscrew²

L - Locking screw¹ L1 - Locking screw²

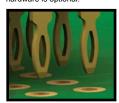
N - Fixed jacknut1 N1 - Fixed jacknut²



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FEATURES

verSI board-mount connectors feature low mating force/high-reliability contact system with four The open-pin field design allows for flexibility in termination schemes. Singleended, differential pair, power, and ground are all available in one connector design. Guide hardware is optional





50 - 50 Columns

MATERIALS and FINISHES

Pin Contacts: Phos bronze per ASTM B103 or BeCu per ASTM B768 (press-fit contact)Localized gold finish per ASTM B488 over nickel per ASTM B689 Type I, 50 µIN min ASTM A320 passivated per SAE AMS-2700, Method 1, Type 2 . Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700) Solder Paste: Sn63Pb37 (PN WS483) and 42Sn/57.6Bi/0.4Ag (PN ALPHA CVP-520)

SI DATA – Simulated (Connectors Only)

1	Diff. Insertion Loss	-0.25 dB @ 5 GHz	-3dB @ 16 GHz
2	Diff. Return Loss	-20 dB @ 5 GHz	-6 dB @ 14 GHz
3	Diff. Impedance	100 ohm ±10% @ 50 ps rise time	
4	Diff. Skew	< 2 psec	

PERFORMANCE

FERI ORMANCE
Contact Rating:
Operating Temperature:55° C to 125° C
Min. Contact Wipe:
Contact Normal Force:
Max Recommended Voltage:
Insulation Resistance: 5,000 megaohms minimum @ 500 VDC
Durability:
Sinusoidal Vibration:
Shock:

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