

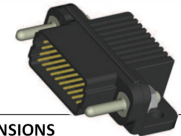
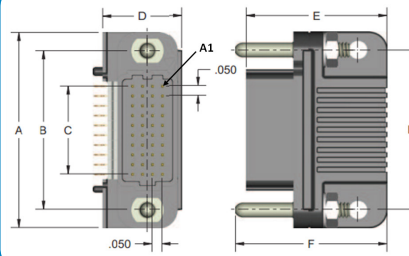


## VSRAM – Right Angle (Male)

Pitch: 1.27 mm

VSRAM signal-integrity connectors are used in right angle, PCB-mount applications where a male interface is required. Termination styles include press-fit, paste-in-hole or plated thru-hole.

### DIMENSIONS



| VSRAM DIMENSIONS |       |       |       |      |      |       |       |
|------------------|-------|-------|-------|------|------|-------|-------|
| Columns          | A     | B     | C     | Rows | D    | E     | F     |
| 10               | 1.000 | .813  | .450  | 4    | .400 | .713  | .768  |
| 20               | 1.500 | 1.313 | .950  | 5    | .450 | .763  | .818  |
| 30               | 2.000 | 1.813 | 1.450 | 6    | .500 | .813  | .868  |
| 40               | 2.500 | 2.313 | 1.950 | 8    | .600 | .913  | .968  |
| 50               | 3.000 | 2.813 | 2.450 | 10   | .700 | 1.013 | 1.068 |

### Sample Part Number Format: VSRAM-04-10-50-02-G



**SERIES**  
 Right Angle (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



**CONTACT PLATING**  
 50 – 50 μ" 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"



**OPTIONS**  
 Blank – No options†  
 G – Guide pin  
 N – Fixed jacknut  
 J – Turning jackscrew  
 L – Locking screw

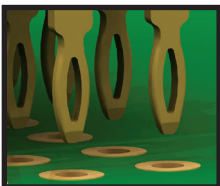
### NOTES

- Connector potting is standard.
- † No hardware supplied with blank hardware option connectors.
- AirBorn can manufacture other configurations to your exact specifications.
- RoHS Compliant; certificate of conformance available upon request with each shipment

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### FEATURES

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



### MATERIALS and FINISHES

- Pin Contacts (Mating Face): Phos bronze per ASTM B103
- Pin Contacts (Termination): BeCu per ASTM B768 (press-fit contact) or brass alloy per ASTM B36 (PIH or PTH)
- Contact Finish (Mating Face): Localized gold finish per ASTM B488, Type II, Code C over nickel per ASTM B689 Type I, 50 μIN min
- Contact Finish (Termination): Localized gold finish per ASTM B488, Type II, Code C, 50 μIN min over nickel per ASTM B689 Type I, 50 μIN min (Press Fit) or Localized Gold per ASTM B488 Type I, Code A or C, 10-25 μIN over nickel per ASTM B689 Type I, 50 μIN min (PIH or PTH)
- Molded Insulators: Glass-filled liquid crystal polymer (LCP) per ASTM D5138
- Potting Compound: Frey Eng. Co. insulating compound CF3003-80
- Hardware (except washers): Stainless steel per ASTM A484/A484M, A582/A582M, or ASTM A320; passivated per SAE AMS-2700, Method 1, Type 2
- Washers: Stainless steel per NASM35333 (ASTM A240), passivated per NASM35333 (SAE AMS-2700)

### 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

- Contact Rating: 2 amperes maximum
- Operating Temperature: -55° C to 125° C
- Min. Contact Wipe: 1.27 mm (0.050")
- Contact Normal Force: 35-40 grams
- Max Recommended Voltage: 200 V, RMS, 60 Hz
- Insulation Resistance: 5,000 megaohms minimum @ 500 VDC
- Durability: 2500 connector mating cycles
- Sinusoidal Vibration: 20 g (EIA-364-28, condition IV)
- Shock: 50 g (EIA-364-27, condition E)

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