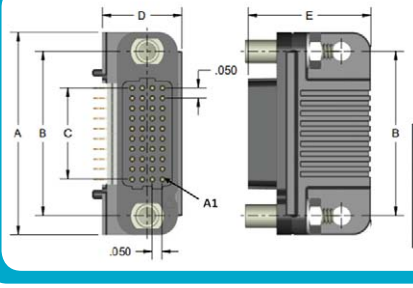
verSI™

VSRAF – Right Angle (Female)

Pitch: 1.27 mm

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

DIMENSIONS



COLUMNS	A (in)	B (in)	C (in)	ROWS	D (in)	E (in)
10	1.000	0.813	0.450	4	0.400	0.619
20	1.500	1.313	0.950	5	0.450	0.669
30	2.000	1.813	1.450	6	0.500	0.719
40	2.500	2.313	1.950	8	0.550	0.769
50	3.000	2.813	2.450	10	0.600	0.819

Sample Part Number Format: VSRAF-04-10-50-02-N

VSRAF – □ – □ – □ – □ – □

SERIES
Right Angle
(Female)
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 socket
N – #2-56 Locking jacknut

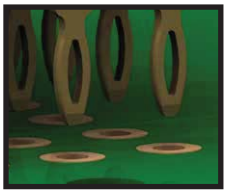
NOTES

Connector potting is standard.
AirBorn can manufacture other configurations to your exact specifications.

PLEASE CONSULT THE AIRBORN WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

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.



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	

MATERIALS and FINISHES

Socket Contact (Mating Face): . . . . . .BeCu per ASTM B194
Socket Contact (Termination): . . . . . Brass alloy per ASTM B36 (PIH or PTH) or BeCu per ASTM B768 (press-fit contact)
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 1, 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).

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)