# **NAirBorn**



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# VSF - Vertical (Female)

#### Pitch: 1.27 mm

VSF signal-integrity connectors are used in vertical, PCB-mount applications where a female interface is required. Termination styles include press-fit, paste-in-hole, plated thru-hole, and surface-mount.

# DIMENSIONS



### Sample Part Number Format: VSF-04-10-50-02



RoHS Compliant (except for termination option 10); 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.



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	100 ohm ±10% @ 50 ps rise time	
4	Diff. Skew	< 2 psec		

# **MATERIALS and FINISHES**

Socket Contacts:
Contact Finish:Localized gold finish per ASTM B488 over nickel per
ASTM B689 Type I, 50 µIN min
Molded Insulators:Glass-filled liquid crystal polymer (LCP) per ASTM D5138
Potting Compound:
Hardware (except washers): Stainless steel per ASTM A484/A484M, ASTM 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)
Solder Paste:

# PERFORMANCE

Contact Rating:	2 amperes maximum
Operating Temperature:	
Min. Contact Wipe:	1.27 mm (0.050")
Contact Normal Force:	
Max Recommended Voltage:	
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)

# www.airborn.com (512) 863-5585

#### VSF-PNB-10