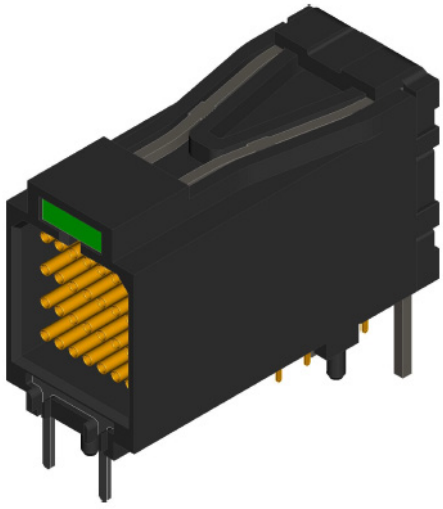
verSI HD

The AirBorn verSI HD expands on our verSI line adding high contact density in an open pin field product. The requirements for high-speed, high-density, signal integrity applications are assured while still delivering the reliability customers have come to expect from AirBorn.



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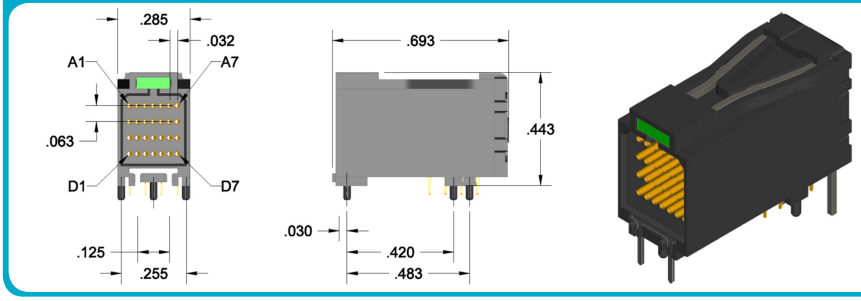
verSI HD

VHT – Right Angle SI Connector

VHT high-density, signal-integrity connectors are used in right angle, PCB-mount applications where a female interface is required. VHT connectors allow for six 4x interfaces in the low-profile PCIe add-on card when used with part number V4001-06.

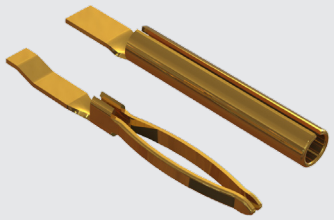
DIMENSIONS



ORDER FORM

Sample Part Number Format: VHT-XX-XX-XX-XX-XX

VHT	–	ENTER CODE	–	ENTER CODE	–	ENTER CODE	–	ENTER CODE	–	ENTER CODE
SERIES Right Angle Female		**ROWS** 04 – 4 Rows		**COLUMNS** 07 – 7 Columns		**CONTACT PLATING** 30 – 30 µ" Au 50 – 50 µ" Au		**TERMINATION** 00 – Press-Fit 01 – Paste-in-Hole		**OPTIONS** Blank – No Options LG – Green LED LY – Yellow LED

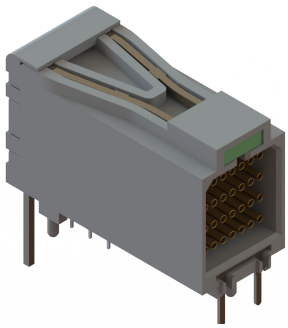


NOTES

Connector potting is standard.

FEATURES

verSI-HD connectors feature low mating force/high-reliability contact system with four points of contact.



MATERIALS and FINISHES

Socket Contact: . . . . . BeCu per UNS C17460
Contact Finish: . . . . . Localized gold finish per MIL-G-45204 over nickel per ASTM-B689 Type I
Molded Insulators: . . . . . Glass-filled liquid crystal polymer (LCP) per ASTM-D5138

NOTE: AirBorn can manufacture other configurations to your exact specifications.

PERFORMANCE

Contact Rating: . . . . . 1 amperes maximum
Operating Temperature: . . . . . -55° C to 125° C
Contact Wipe: . . . . . 1.5 mm (.060")
Contact Normal Force: . . . . . 35-40 grams
Max Recommended Voltage: . . . . . 150 V, RMS, 60 Hz
Insulation Resistance: . . . . . 5,000 megaohms minimum @ 150 VDC
Durability: . . . . . 1000 connector mating cycles
Sinusoidal Vibration: . . . . . 15 g (EIA-364-28, condition IV)
Random Vibration: . . . . . TBD
Shock: . . . . . 100 g (EIA-364-27, condition G)

NOTE: Performance values are estimates at this time. Actual values will be determined when final product testing is complete.

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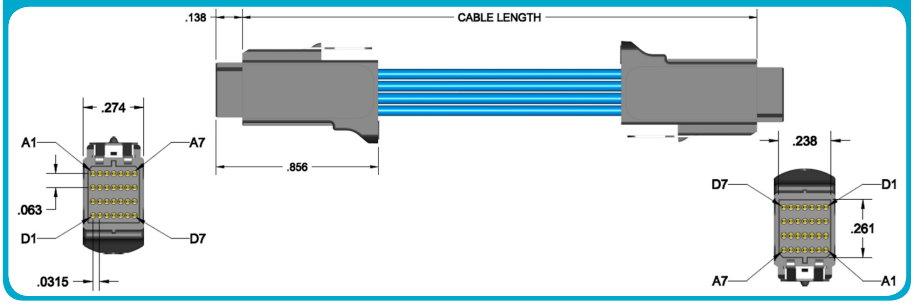
verSI HD

VHD – Differential Pair Twinax Cable Assembly

VHD high-density cable assemblies are designed for differential pair, twinax applications. These cable assemblies come in two standard lengths but custom lengths and configurations can also be requested.

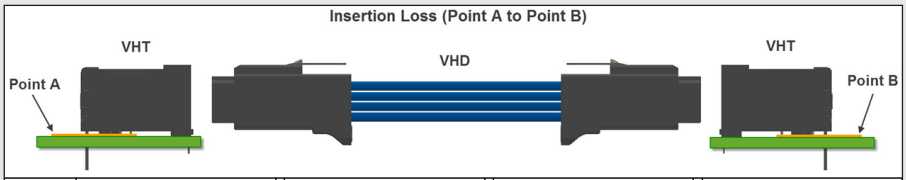
DIMENSIONS



ORDER FORM

Sample Part Number Format: VHD-XX-XX-XX-XXX-XXX

VHD	–	ENTER CODE	–	ENTER CODE	–	ENTER CODE	–	ENTER CODE	–	ENTER CODE
SERIES Differential Pair, Twinax Assembly		**ROWS** 04 – 4 Rows		**COLUMNS** 07 – 7 Columns		**CONTACT PLATING** 30 – 30 µ" Au 50 – 50 µ" Au		**IMPEDANCE VALUE** 085 – 85 Ω 100 – 100 Ω		**LENGTH*** 030 – 0.30 M 040 – 0.40 M 050 – 0.50 M 060 – 0.60 M 070 – 0.70 M 080 – 0.80 M 090 – 0.90 M 100 – 1.00 M 150 – 1.50 M 200 – 2.00 M 300 – 3.00 M



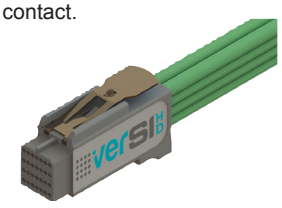
	1 Meter		2 Meters		2.5 Meters		3.0 Meters	
	3.2 GHz = 6.4 Gb/S HyperShare	4.0 GHz = 8 Gb/S PCIe GenIII	3.2 GHz = 6.4 Gb/S HyperShare	4.0 GHz = 8 Gb/S PCIe GenIII	3.2 GHz = 6.4 Gb/S HyperShare	4.0 GHz = 8 Gb/S PCIe GenIII	3.2 GHz = 6.4 Gb/S HyperShare	4.0 GHz = 8 Gb/S PCIe GenIII
85 Ω	3.2 dB	4 dB	6.0 dB	7.8 dB	7.5dB	9.75 dB	9.0 dB	11.7 dB
100 Ω	3.0 dB	3.8 dB	5.8 dB	7.0 dB	7.25 dB	8.75 dB	8.7 dB	10.5dB

NOTES

*** Connector potting is standard.**

FEATURES

verSI-HD connectors feature low mating force/high-reliability contact system with four points of contact.



Row	Column 1	2	3	4	5	6	7
A	N/C	TX1p	TX1n	Gnd	TX3p	TX3n	N/C
B	Gnd	TX2p	TX2n	Gnd	TX4p	TX4n	Gnd
C	N/C	Rx2p	Rx2n	Gnd	RX4p	RX4n	N/C
D	Gnd	Rx1p	Rx1n	Gnd	RX3p	RX3n	Gnd

MATERIALS and FINISHES

Pin Contact: . . . . . BeCu per ASTM-B194
Contact Finish: . . . . . .Localized gold finish per MIL-G-45204 over nickel per ASTM-B689 Type I
Molded Insulators: . . . . . Glass-filled liquid crystal polymer (LCP) per ASTM-D5138

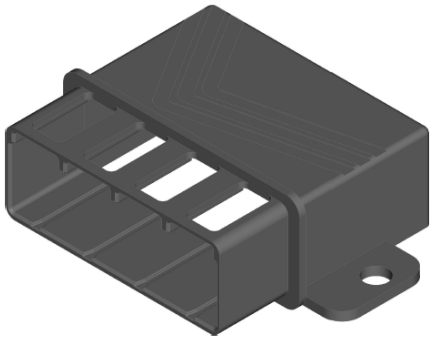
NOTE: AirBorn can manufacture other configurations to your exact specifications.

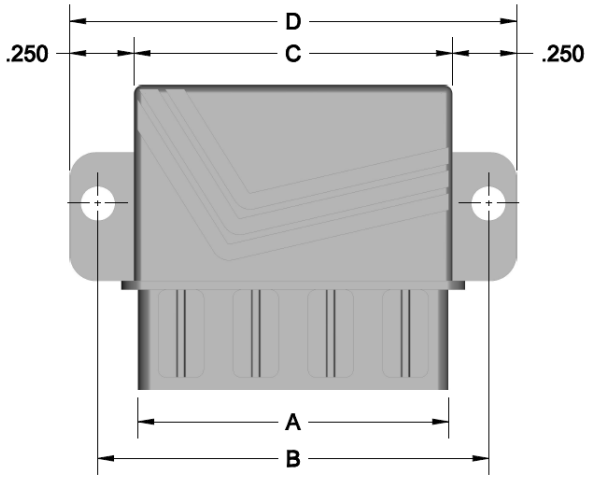
PERFORMANCE

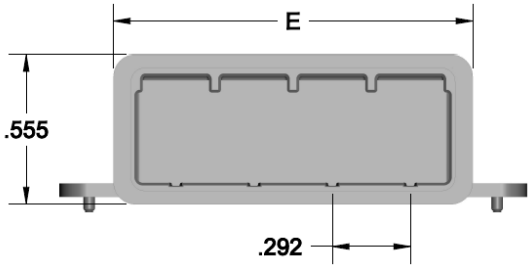
Contact Rating: . . . . . 1 amperes maximum
Operating Temperature:. . . . . -55° C to 125° C
Contact Wipe: . . . . . 1.5 mm (.060")
Contact Normal Force: . . . . . 35-40 grams
Max Recommended Voltage: . . . . . 150 V, RMS, 60 Hz
Insulation Resistance: . . . . . 5,000 megaohms minimum @ 150 VDC
Durability:. . . . . 1000 connector mating cycles
Sinusoidal Vibration: . . . . . 15 g (EIA-364-28, condition IV)
Random Vibration:. . . . . .TBD
Shock: . . . . . 100 g (EIA-364-27, condition G)

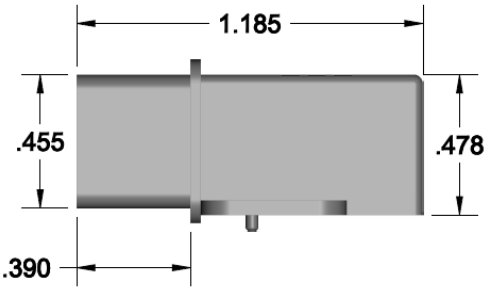
NOTE: Performance values are estimates at this time. Actual values will be determined when final product testing is complete.

V4000-04 HOOD









Part Number	Positions	A	B	C	D	E
V4000-01	1	.335	.648	.365	.865	.465
V4000-02	2	.627	.940	.657	1.157	.757
V4000-04	4	1.211	1.524	1.241	1.741	1.341
V4000-08	8	2.379	2.692	2.409	2.909	2.509

MATERIALS and FINISHES

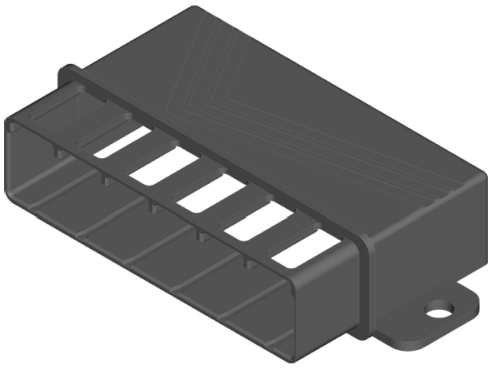
Material: Zinc alloy per ASTM-AG40A

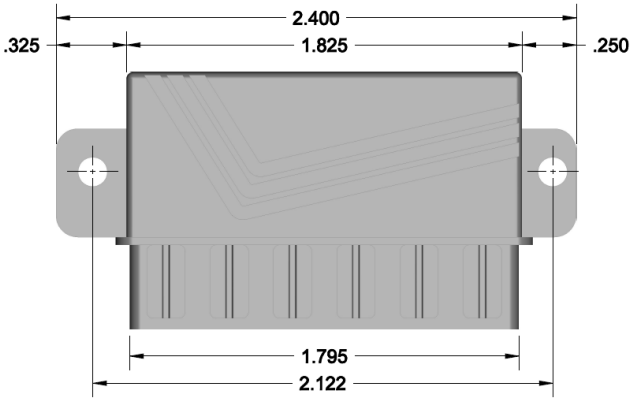
Finish: 50–100µ" nickel per AMS-QQ-N-290

V4001-06 HOOD

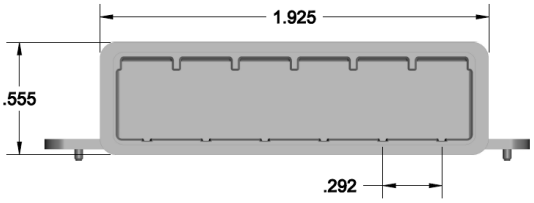
VERSI HD

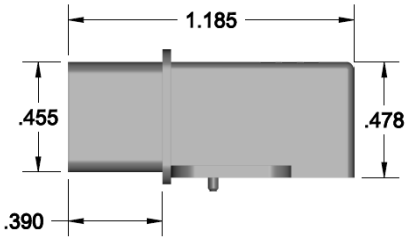
Specifically designed for PCIe applications.





Part Number	Positions
V4001-06	6





MATERIALS and FINISHES

Material: Zinc alloy per ASTM-AG40A

Finish: 50–100µ" nickel per AMS-QQ-N-290