



## Vertical Compression (Z-axis), Open-Pin Field

Contact spacing: 0.050" (1.27 mm)

A high-density, open-field, vertically-compressed connector utilizing a patented z-axis contact system configured for between-board (board-to-board) compression applications.

### DIMENSIONS

COLUMNS	C	D
10	0.952	0.742
15	1.202	0.992
20	1.452	1.242
25	1.702	1.492
ROWS	E	F
2	0.210	0.105
3	0.260	0.105
4	0.310	0.155
5	0.360	0.155
6	0.410	0.205
7	0.460	0.205



HARDWARE HEIGHT (A)	CONTACT HEIGHT (B)
0.100	0.120
0.150	0.170
0.200	0.230
0.250	0.280
0.300	0.330
0.350	0.380

### Sample Part Number Format: RZ250-320-115-1000



#### SERIES

Vertical (Z-Axis)  
 Compression  
 Multi-Rows  
 0.050" Spacing  
 Open-Field



#### HEIGHT

100 – 0.100"  
 150 – 0.150"  
 200 – 0.200"  
 250 – 0.250"  
 300 – 0.300"  
 350 – 0.350"



#### ROWS

2 – 2 Rows  
 3 – 3 Rows  
 4 – 4 Rows  
 5 – 5 Rows  
 6 – 6 Rows  
 7 – 7 Rows



#### COLUMNS

10 – 10 Columns  
 15 – 15 Columns  
 20 – 20 Columns  
 25 – 25 Columns



#### CONTACT

11 – Double compression



#### PLATING

5 – 50 μ" Au  
 3 – 30 μ" Au



#### HARDWARE

10 – Ø.090" Thru-hole  
 20 – Ø.050" Guide pin



#### TYPE

00 – No polarization



#### VARIATION

Blank – None  
 XXX – Consult factory



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### MATED HEIGHT

Mated height is defined as the space between the hardware clamping surfaces (top hardware surface to bottom hardware surface.) See Table 1.



### SI DATA – Differential 100 Ohm

1	Diff. Insertion Loss	3.0 GHz @ -3 dB
2	Diff. Return Loss	1.0 GHz @ -20 dB
3	NEXT	2.0 GHz @ -50 dB
4	FEXT	2.0 GHz @ -48 dB

### MATERIALS and FINISHES

Contact: ..... BeCu C17200 per ASTM B194 (brush alloy 190)  
 Contact Finish: ..... Gold per ASTM B488 over nickel per SAE AMS-QQ-N-290  
 Molded Insulator: ..... Glass-filled polyphenylene sulfide (PPS) per MIL-M-24519  
 Hardware: ..... Stainless steel per ASTM A582/582M, passivated per SAE AMS-2700

**NOTE: AirBorn can manufacture special configurations to your exact specifications.**

### PERFORMANCE

Contact Compression: ..... 0.010 inches per side (nominal) for 0.100" and 0.150" connector heights; 0.015" per side (nominal) for 0.200", 0.250", 0.300" and 0.350" connector heights  
 Compression Force: ..... 25-40 grams per contact having a 0.010" deflection  
 ..... 35-50 grams per contact having a 0.015" deflection  
 Contact Wipe: ..... ≈0.007" for 0.100" and 0.150" connector heights  
 ..... ≈0.014" for 0.200", 0.250", 0.300" and 0.350" connector heights  
 Current Rating: ..... 0.5 amperes  
 Contact Resistance: ..... 0.025 ohms typical (contact height-dependent)  
 Operating Temperature: ..... -65° C to +125° C  
 Insulation Resistance: ..... 5,000 megaohms minimum @ 100 VDC  
 Durability: ..... 50 connector mating cycles  
 Dielectric Withstanding: ..... 250 VDC @ sea level, 100 VDC @ altitude

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

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