



Z Series

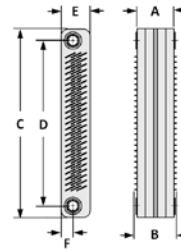
Vertical Compression (Z-axis), Open-Pin Field

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



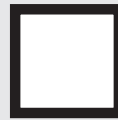
SERIES
Vertical
(Z-Axis)
Compression
Multi-Rows
0.050" Spacing
Open-Field



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



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



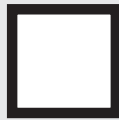
PLATING
5 – 50 μ" Au
3 – 30 μ" Au



CONTACT
11 – Double
compression



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

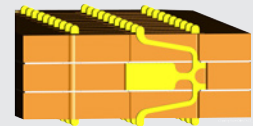


TYPE
00 – No polarization



VARIATION
Blank – None
XXX – Consult
factory

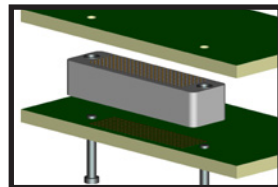
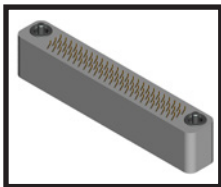
ROWS
2 – 2 Rows
3 – 3 Rows
4 – 4 Rows
5 – 5 Rows
6 – 6 Rows
7 – 7 Rows



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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.