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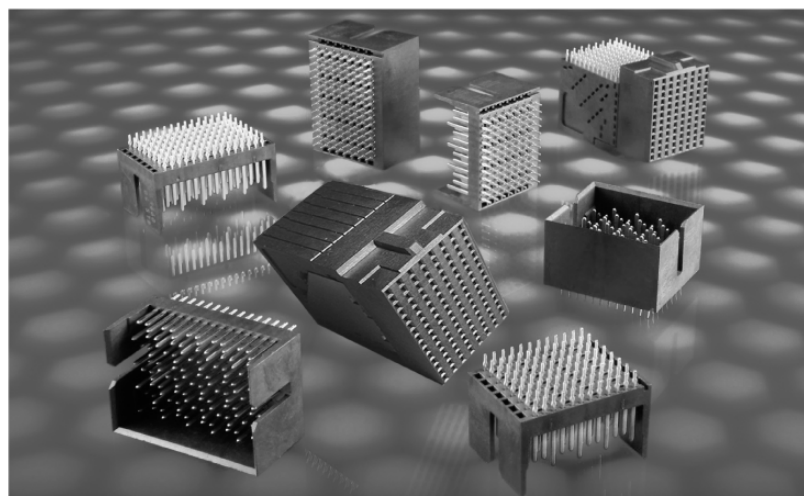
Introduction

Product Facts

- 10+ Gbps performance
- 100 ohm Impedance for Differential Pair configuration
- 5 pair version offers 26 pairs/10mm [66 differential pairs/inch] fitting within a 25.40 [1.00] card slot pitch
- 4 pair version offers 21 pairs/10mm [53 differential pairs/inch] fitting within a 20.30 [.800] card slot pitch
- 3 pair version offering 16 pairs/10mm [40 differential pairs/inch] fitting within a 16.25 [.625] card slot pitch
- Right angle pin headers (coplanar) in 3 pair, 4 pair, and 5 pair versions
- Reliable, redundant contact design on every signal contact
- Modular system offered in various column versions
- Meets Industry reliability requirements of Bellcore/Telcordia
- Sequencing for ground and signal contacts
- RoHS Compliant

Future Product Extensions

- Vertical receptacles
- High speed cable assemblies and hardware



The Z-PACK TinMan backplane connector family is a cost-effective solution for customers searching for a high density, high performance backplane interconnect system.

The Z-PACK TinMan connector design follows proven industry backplane convention by offering a fully protected right-angle receptacle for use on daughter-cards where handling damage can be a concern when mating to a vertical male header. This connector permits field repairability at either the module or single pin levels.

Ground contacts positioned within each column of the connector, combined with unique contact lead frame arrangements, enable the Z-PACK TinMan connector to achieve low crosstalk and high through-put performance levels. Reliability is provided with a dual point of contact mating interface and compliant pin interface to the printed circuit board.

Industry Applications

Ideally designed for cost pressured, high signal density applications requiring interconnection between two printed circuit boards, such as those typically found in server, storage, switch, router, and similar applications. The Z-PACK TinMan connector product family is suited to meet the demands of today's modular system designs by offering a variety of configurations. The product family includes configurations to fit 20.32 [.800] and 25.40 [1.00] card slot spacing.

Technical Documents

Product Specification 108-2303
Application Specification 114-13202
Routing Guide Report #27GC001-1

Material and Finish

Signal Contact — High Strength Copper Alloy
Ground Contact — High Strength Copper Alloy
Housing — Liquid Crystal Polymer, UL 94V-0 Rated
Platings — Telcordia compliant interface, Nickel underplate
Compliant Pin Plating — RoHS Compliant

Ratings

Temperature Range — -65°C to +90°C
Current Rating — 0.5 A/contact @ < 30°C T-Rise
Durability — 200 cycles
Dielectric Withstanding Voltage — 560 VAC
Operating Voltage — 250 VAC max.

Signal Integrity

Characteristic Impedance — Differential @ 100 ohms $\pm 10\%$
Crosstalk — Multi-pair differential crosstalk: 2.1% @ 50ps
Insertion Loss — -2 dB @ 10 GHz

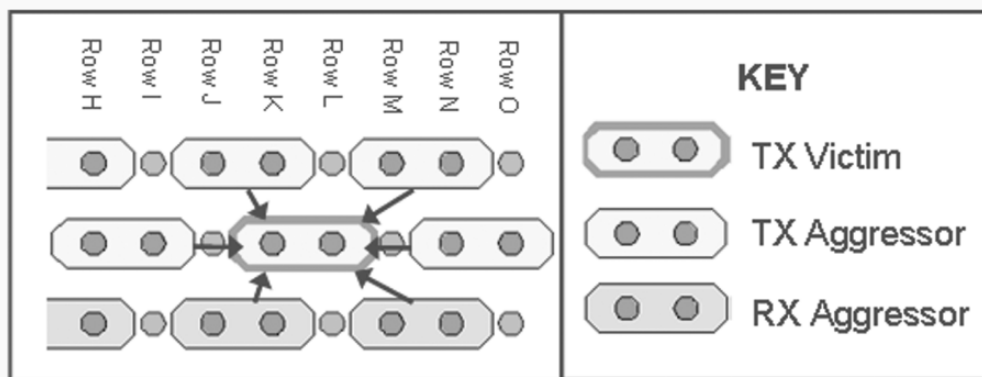
Introduction (Continued)

Noise Table

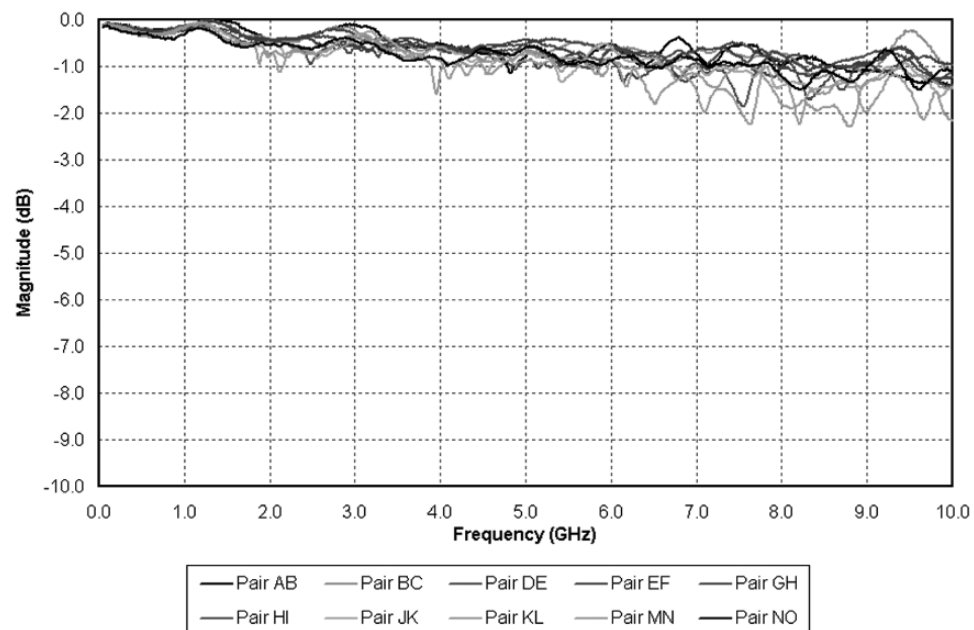
- Maximum, multiple source crosstalk

Victim Pair	Total Peak Receiver Noise for Recommended Pin-Out
AB9	0.8%
BC8	1.6%
DE9	1.9%
EF8	1.9%
GH9	2.0%
HI8	2.0%
JG9	2.0%
KL8	2.1%
MN9	1.7%
NO8	0.8%

Note: Data includes PCB vias of both backplane and daughtercard connectors. Single mated connector pair 50 ps (20-80%) edge rate



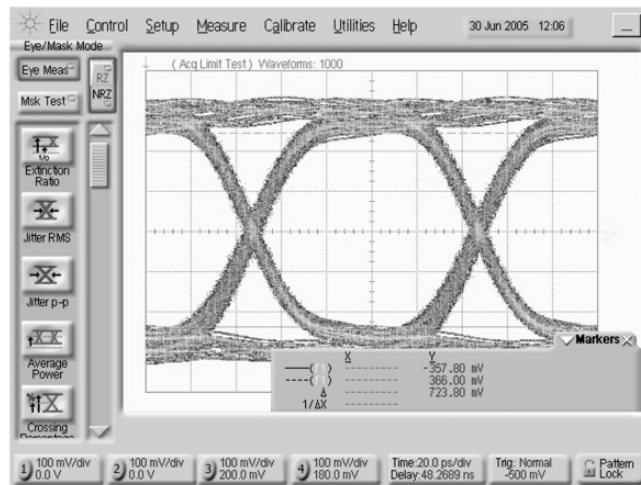
Insertion Loss Plot



Introduction (Continued)

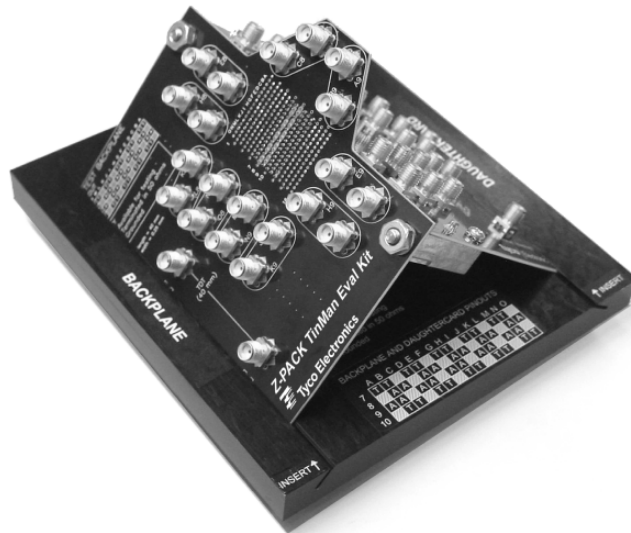
Representative Eye Pattern

- 10.0 Gbps data rate
- 2⁷-1 PRBS
- Unequalized Signal



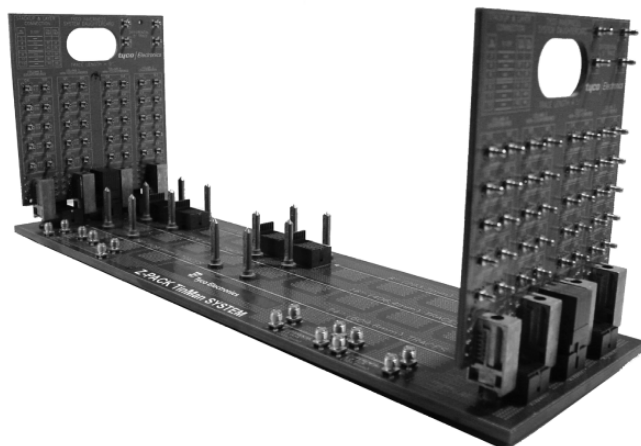
Customer Connector Evaluation Kit

- Connector characterization
- Available for loan — contact your local Tyco Electronics Sales Engineer
- Time and frequency domain testable
- Testable to 18+ GHz (25+ Gb/s)
- Multiple calibration options
- Convenient SMA interface



Customer System Evaluation Kit

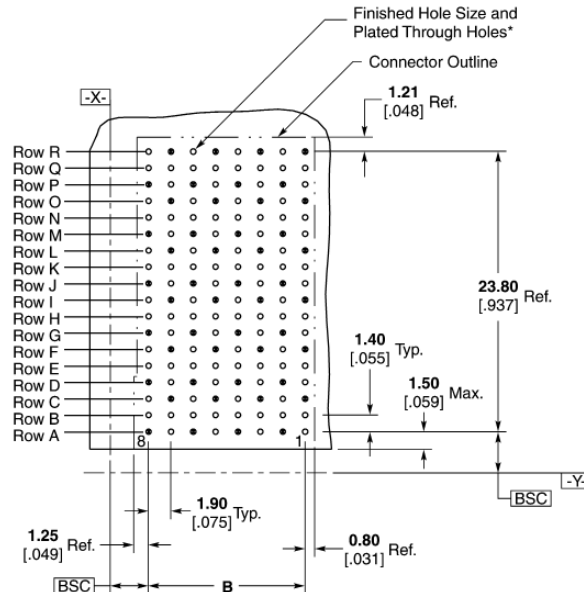
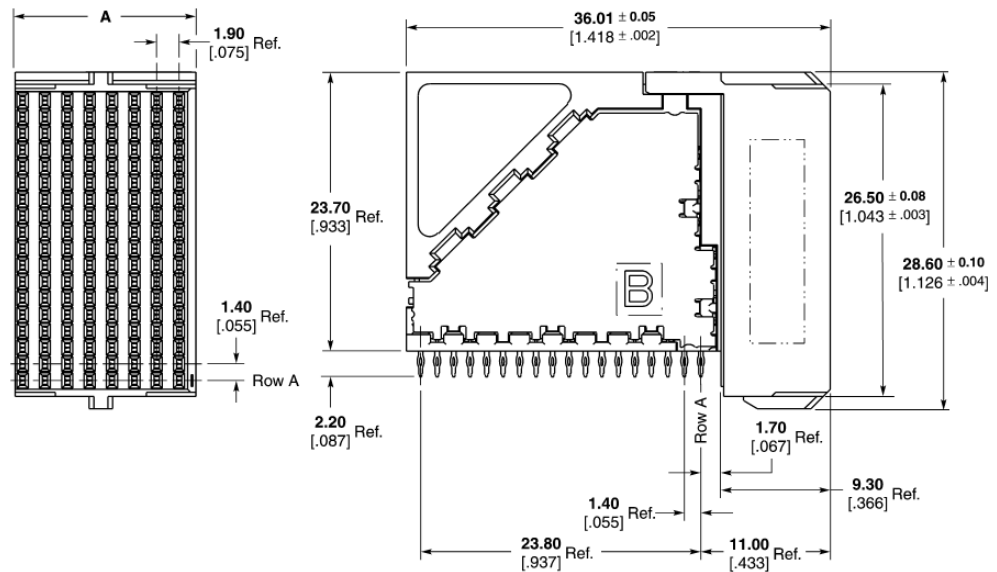
- System characterization
- Available for loan — contact your local Tyco Electronics Sales Engineer
- Time and frequency domain testable
- Testable to 18+ GHz (25+ Gb/s)
- Multiple system lengths
- Convenient SMA interface



6 Pair Right Angle Receptacle Assemblies

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934504-1	15.35 .604	13.30 .524	*	1934505-1, 1934513-1, 1934514-1, 1934515-1
10	2065021-1	19.15 .754	17.10 .673	*	1934520-1, 1934523-1
16	1934912-1	30.55 1.203	28.50 1.122	*	1934516-1, 1934519-1

* Custom tooling not required. Utilizes flat-rock insertion tooling. Reference Application Specification 114-13202.



**Recommended PC Board Layout
Daughterboard
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

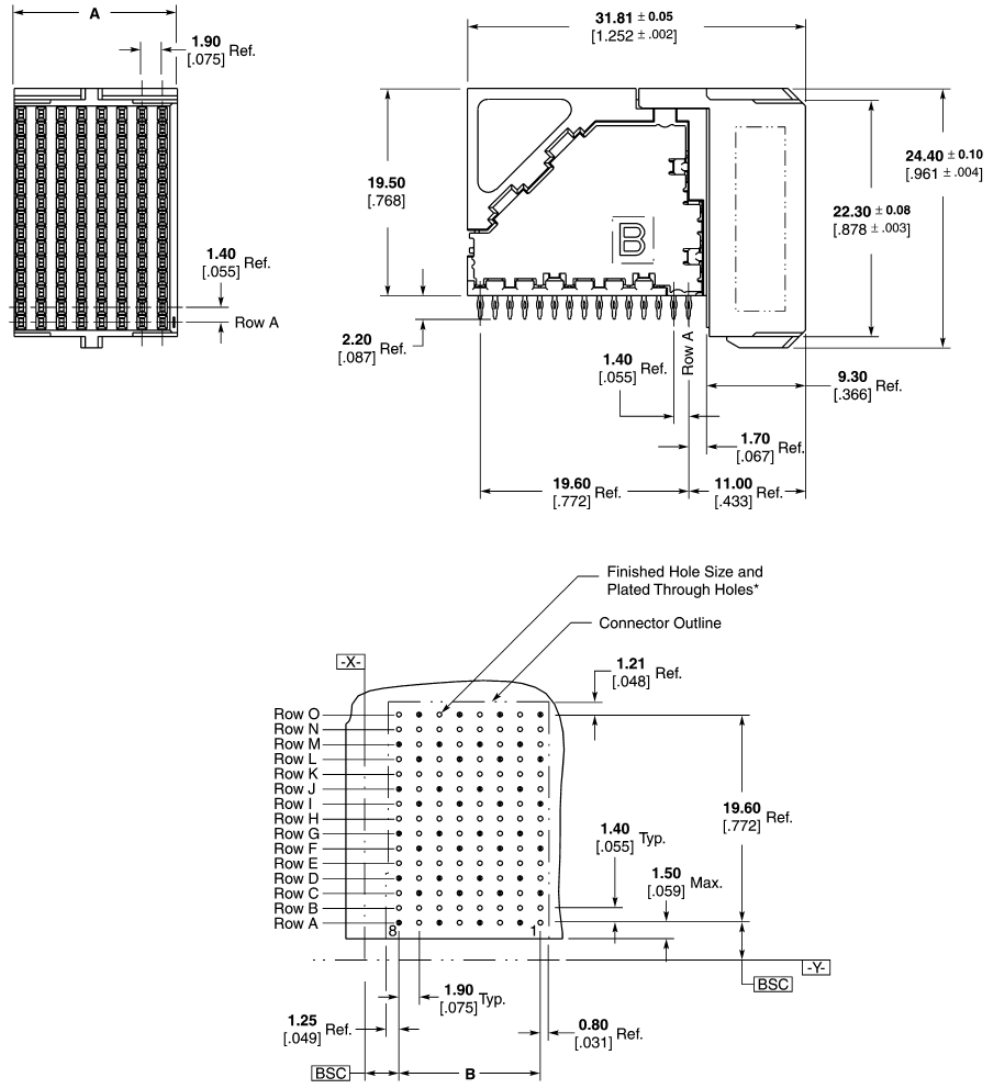
* Finished Hole Diameter = 0.46 ± 0.05 [0.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [0.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

5 Pair Right Angle Receptacle Assemblies

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934218-1	15.35 .604	13.30 .524	*	1934269-1,(R) 1934272-1,(L) 1934273-1, 1934271-1, 1934349-1, 1934350-1
10	1934220-1	19.15 .754	17.10 .673	*	1934325-1, 1934326-1
16	1934221-1	30.55 1.203	28.50 1.122	*	1934331-1, 1934334-1, 1934333-1, 1934332-1, 1934347-1, 1934348-1

* Custom tooling not required. Utilizes flat-rock insertion tooling. Reference Application Specification 114-13202.



**Recommended PC Board Layout
Daughterboard
Component Side Shown**

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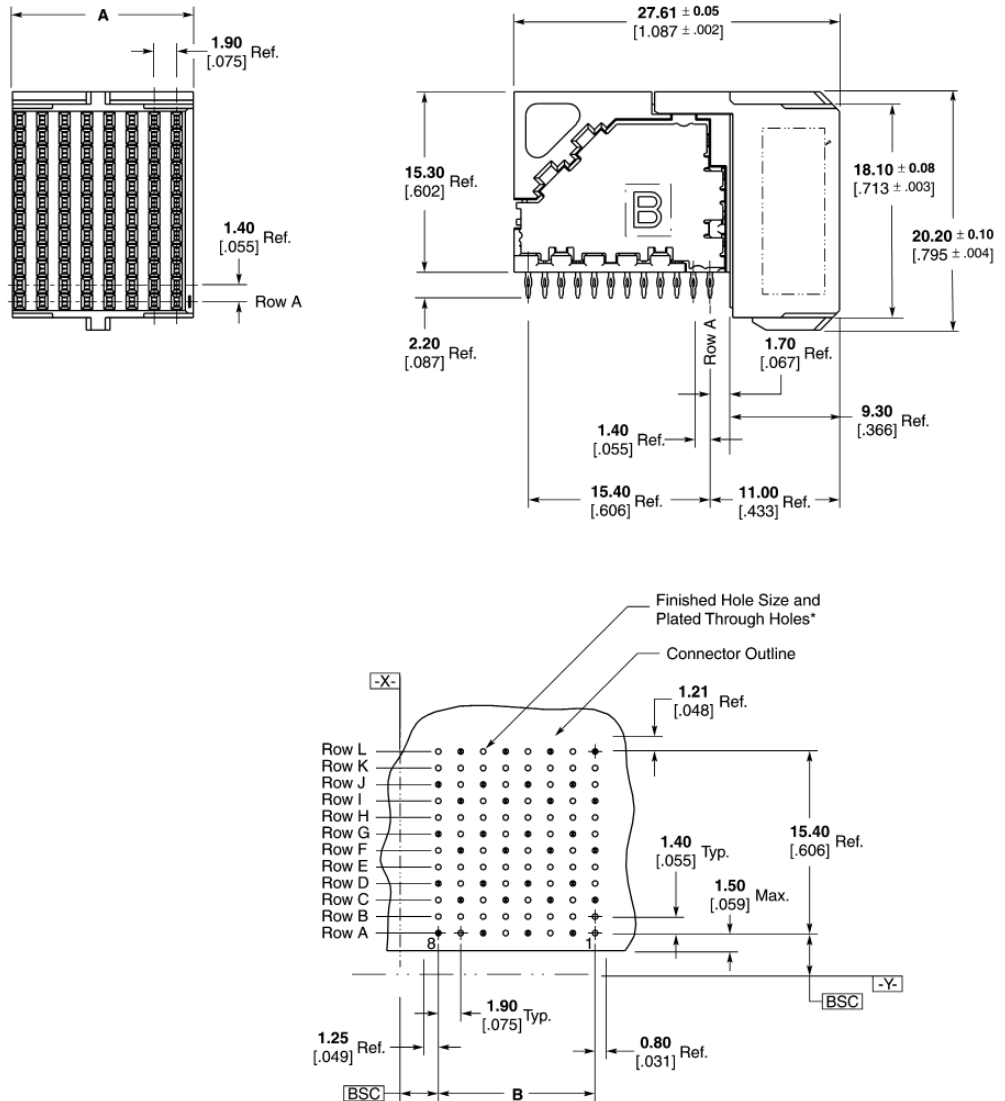
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Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

4 Pair Right Angle Receptacle Assemblies

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934222-1	15.35 .604	13.30 .524	*	1934304-1, 1934303-1, 1934305-1, 1934306-1, 1934353-1, 1934354-1
10	1934224-1	19.15 .754	17.10 .673	*	1934311-1, 1934312-1, 1934313-1, 1934314-1
16	1934225-1	30.55 1.203	28.50 1.122	*	1934315-1, 1934318-1, 1934317-1, 1934316-1, 1934351-1, 1934352-1

* Custom tooling not required. Utilizes flat-rock insertion tooling. Reference Application Specification 114-13202.



Recommended PC Board Layout
Daughterboard
Component Side Shown

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

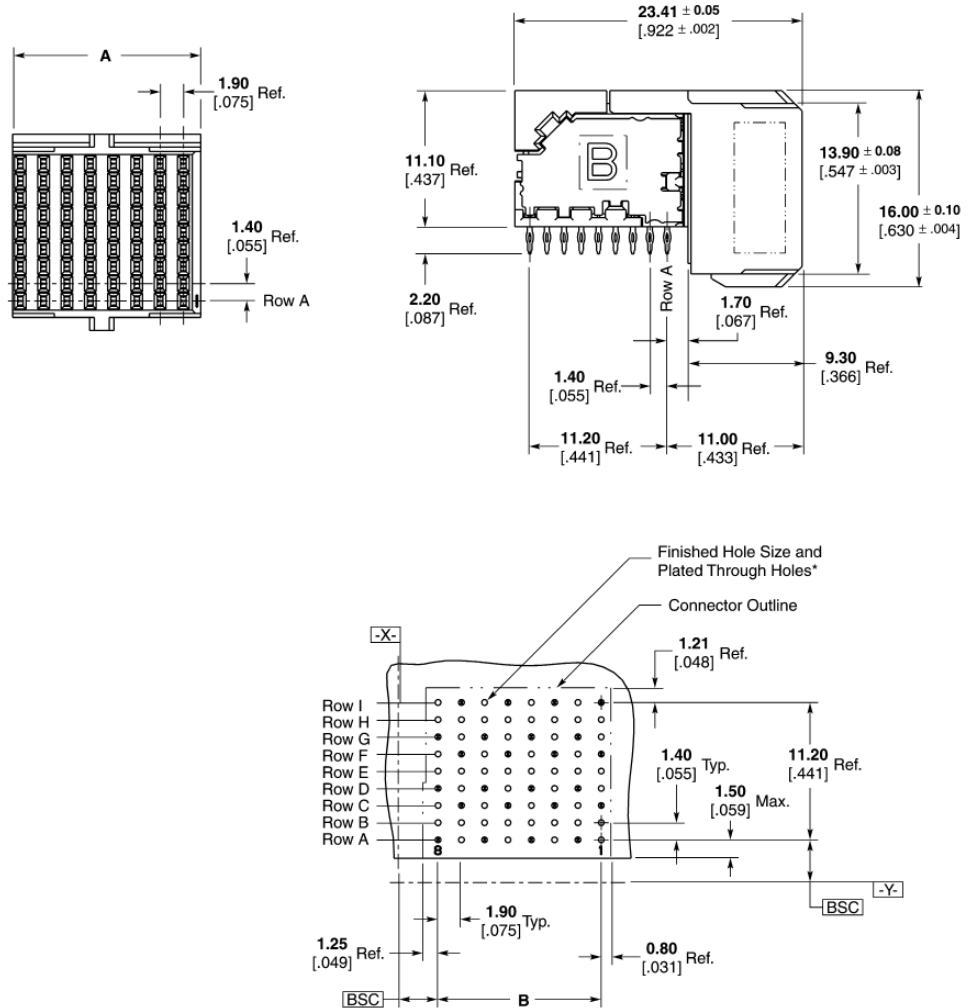
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Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

3 Pair Right Angle Receptacle Assemblies

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934226-1	15.35 .604	13.30 .524	*	1934299-1, 1934300-1, 1934301-1, 1934302-1, 1934359-1, 1934360-1
10	1934228-1	19.15 .754	17.10 .673	*	1934339-1, 1934341-1, 1934340-1, 1934342-1, 1934357-1, 1934358-1
16	1934229-1	30.55 1.203	28.50 1.122	*	1934343-1, 1934344-1, 1934345-1, 1934346-1, 1934355-1, 1934356-1

* Custom tooling not required. Utilizes flat-rock insertion tooling. Reference Application Specification 114-13202.



**Recommended PC Board Layout
Daughterboard
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

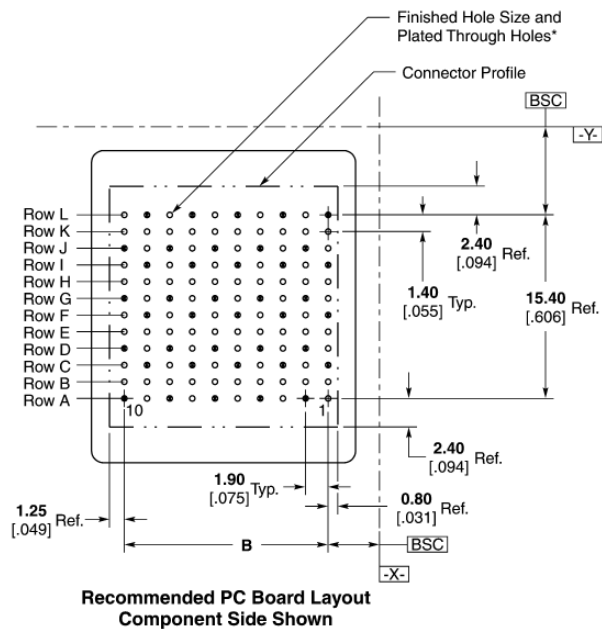
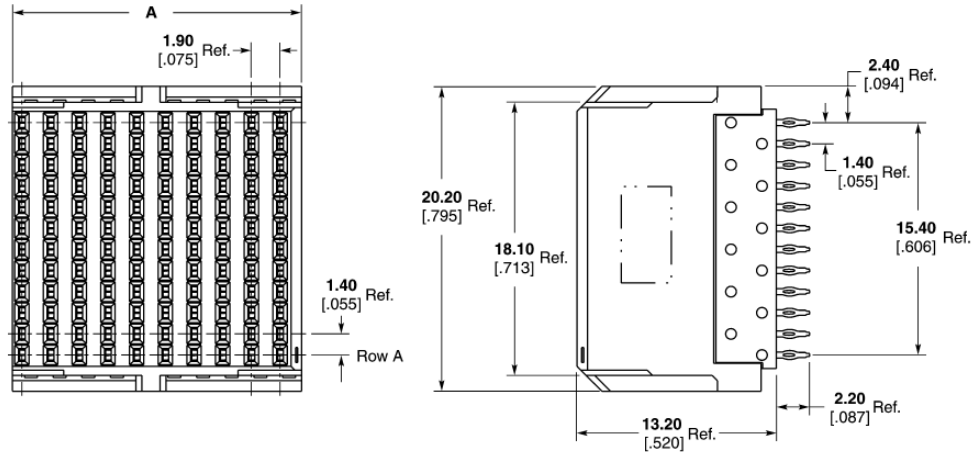
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Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

4 Pair Vertical Receptacle Assemblies

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934593-1	15.35 .605	13.30 .524	*	1934305-1, 1934303-1, 1934304-1, 1934306-1, 1934353-1, 1934354-1
10	1934544-1	19.15 .754	17.10 .673	*	1934311-1, 1934313-1, 1934314-1, 1934312-1
16	1934594-1	30.70 1.210	28.50 1.122	*	1934315-1, 1934317-1, 1934318-1, 1934316-1, 1934351-1, 1934352-1

* Custom tooling not required. Utilizes flat-rock insertion tooling. Reference Application Specification 114-13202.

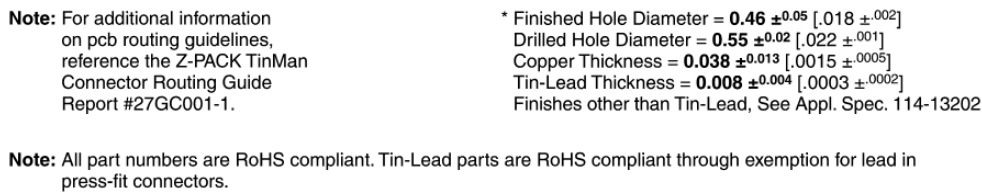


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Finishes other than Tin-Lead, See Appl. Spec. 114-13202

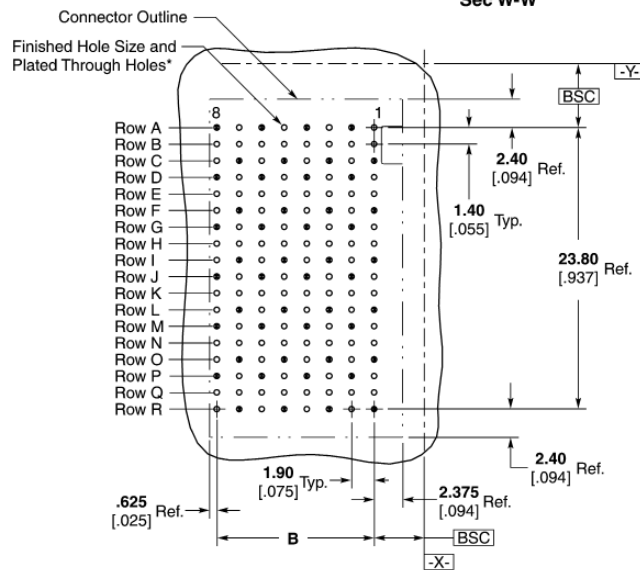
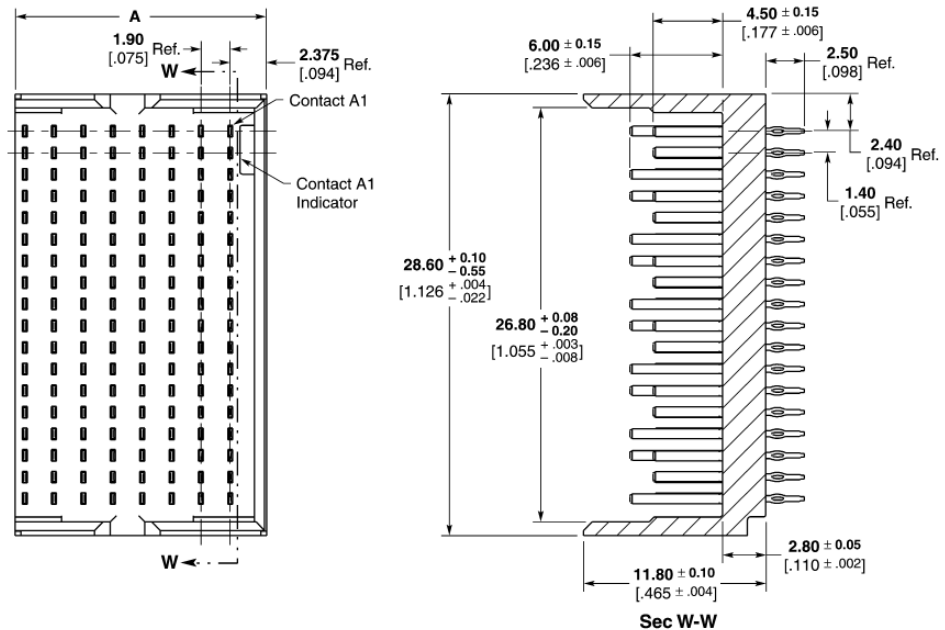
Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934505-1	15.35 .604	13.30 .524	2063383-1	1934504-1
10	1934520-1	19.15 .754	17.10 .673	2063383-2	2065021-1
16	1934516-1	30.55 1.203	28.50 1.122	2063383-3	1934912-1



6 Pair Vertical Header Assemblies — Left End Wall

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934513-1	16.30 .642	13.30 .524	2063383-1	1934504-1



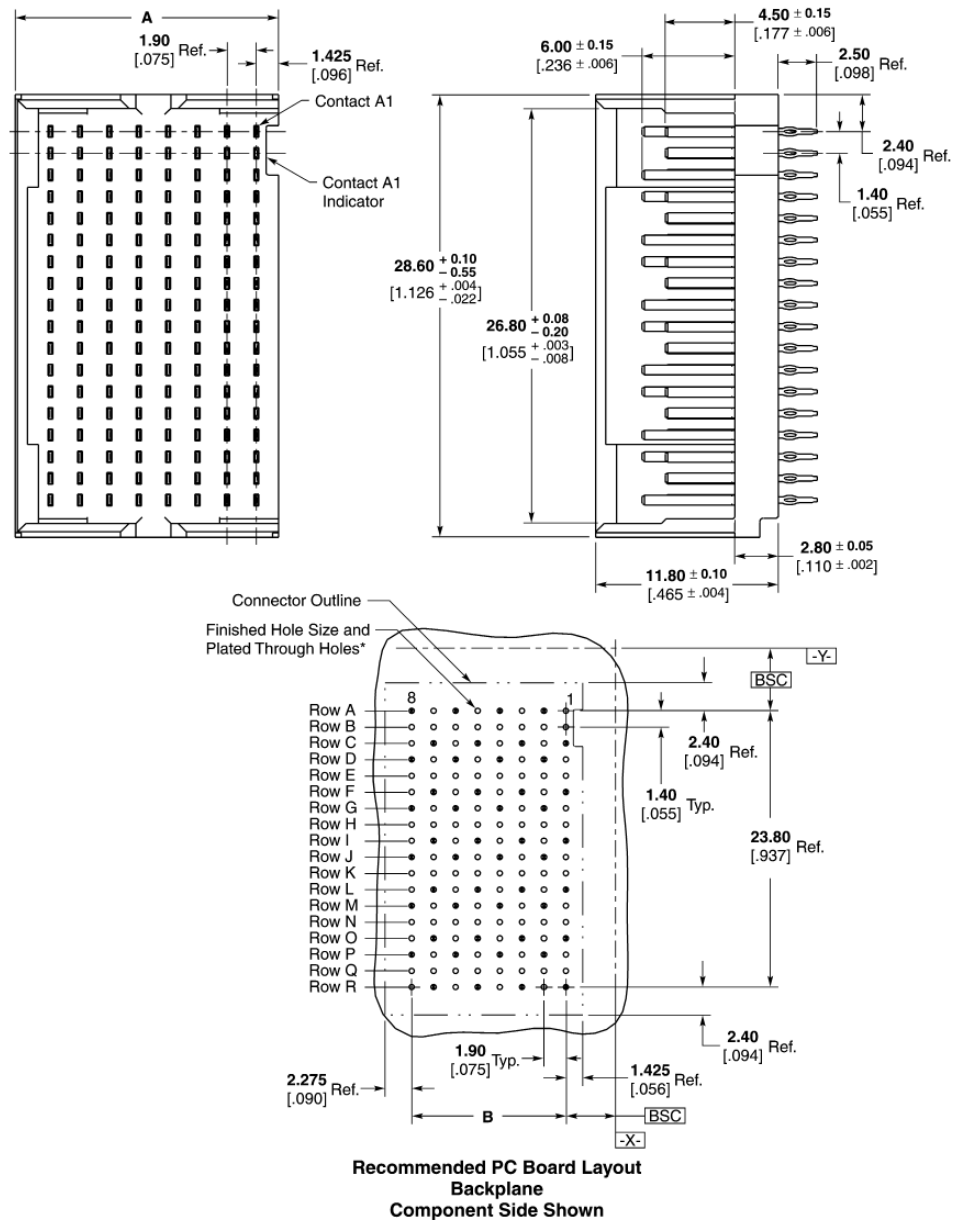
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Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ±.0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

6 Pair Vertical Header Assemblies — Right End Wall

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934514-1	17.60 .693	13.30 .524	2063383-1	1934504-1



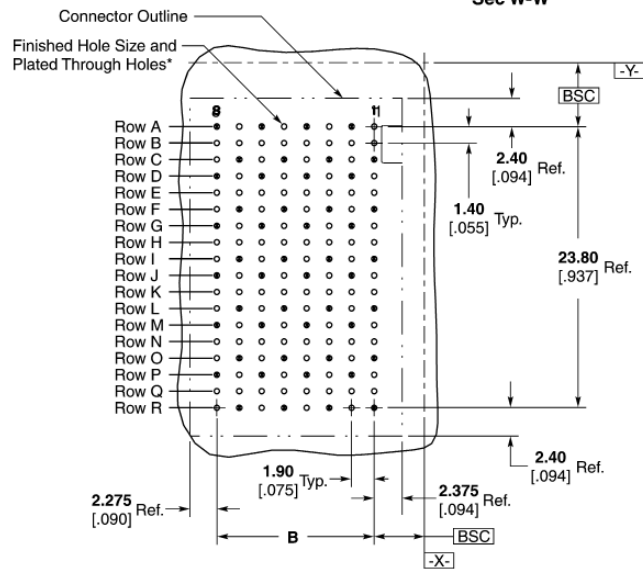
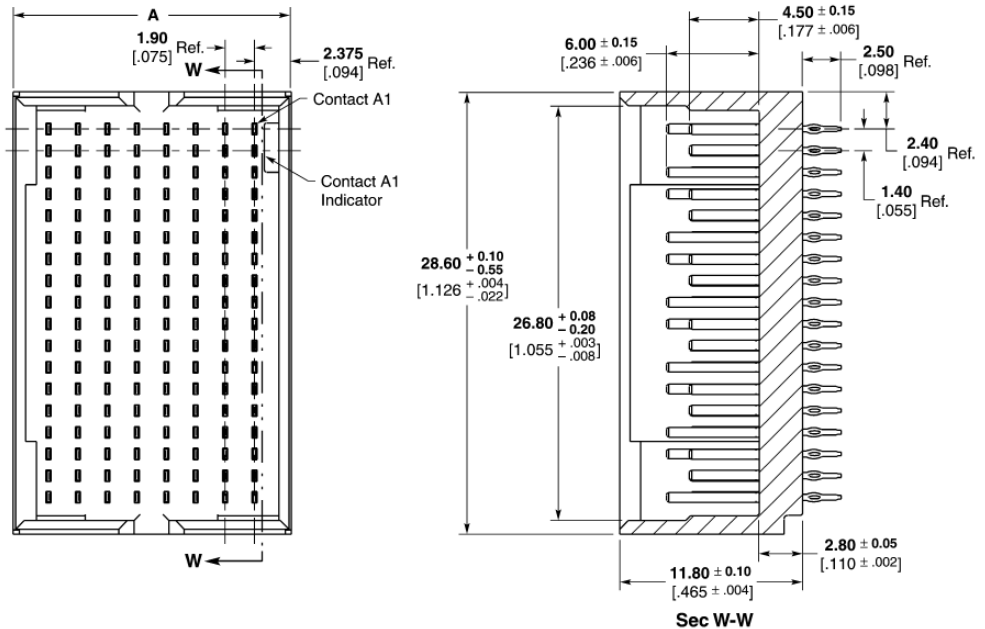
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 Drilled Hole Diameter = $0.55 \pm^{+0.02}_{-0.001}$ [022 $\pm^{+0.001}_{-0.0005}$]
 Copper Thickness = $0.038 \pm^{+0.013}_{-0.0005}$ [0015 $\pm^{+0.0005}_{-0.0002}$]
 Tin-Lead Thickness = $0.008 \pm^{+0.004}_{-0.0003}$ [0003 $\pm^{+0.0002}_{-0.0001}$]
 Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

6 Pair Vertical Header Assemblies — Double End Walls

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934515-1	17.95 .707	13.30 .524	2063383-1	1934504-1
10	1934523-1	21.75 .856	17.10 .673	2063383-2	2065021-1
16	1934519-1	33.15 1.305	28.50 1.122	2063383-3	1934912-1



Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

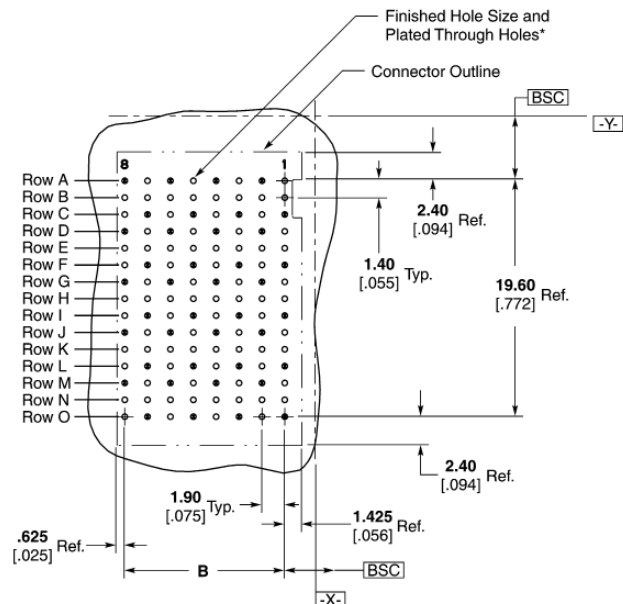
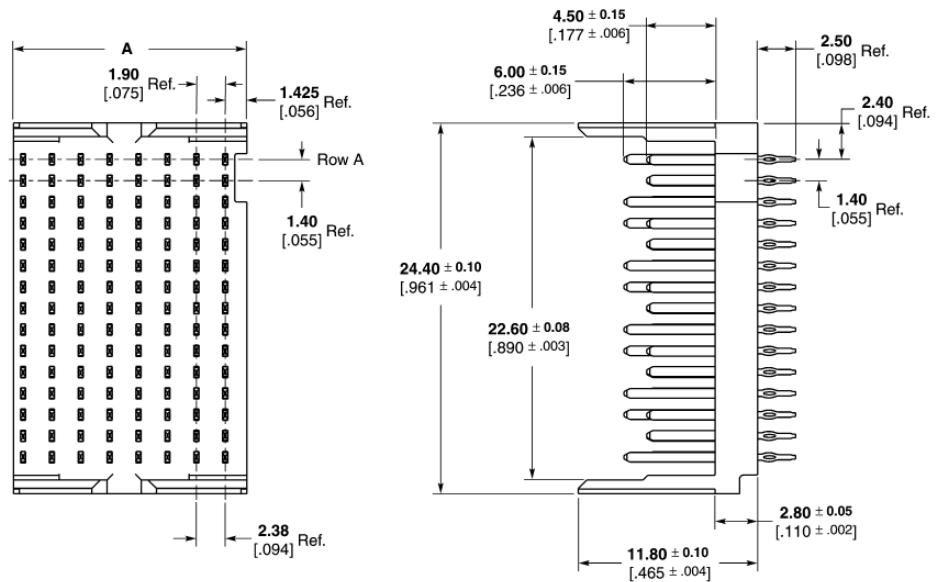
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Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± .001]
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Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

5 Pair Vertical Header Assemblies

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934269-1	15.35 .604	13.30 .524	1-1804791-1	1934218-1
10	1934325-1	19.15 .754	17.10 .673	1-1804791-7	1934220-1
16	1934331-1	30.55 1.203	28.50 1.122	1-1804791-3	1934221-1

* Reference Application Specification 114-13202.



**Recommended PC Board Layout
Backplane
Component Side Shown**

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

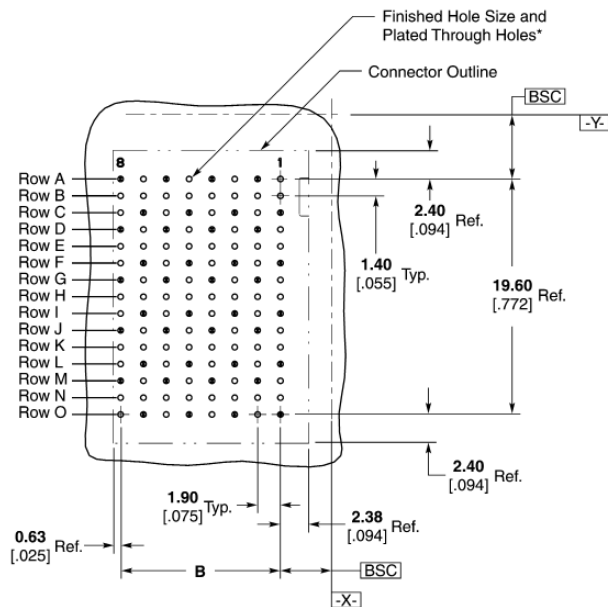
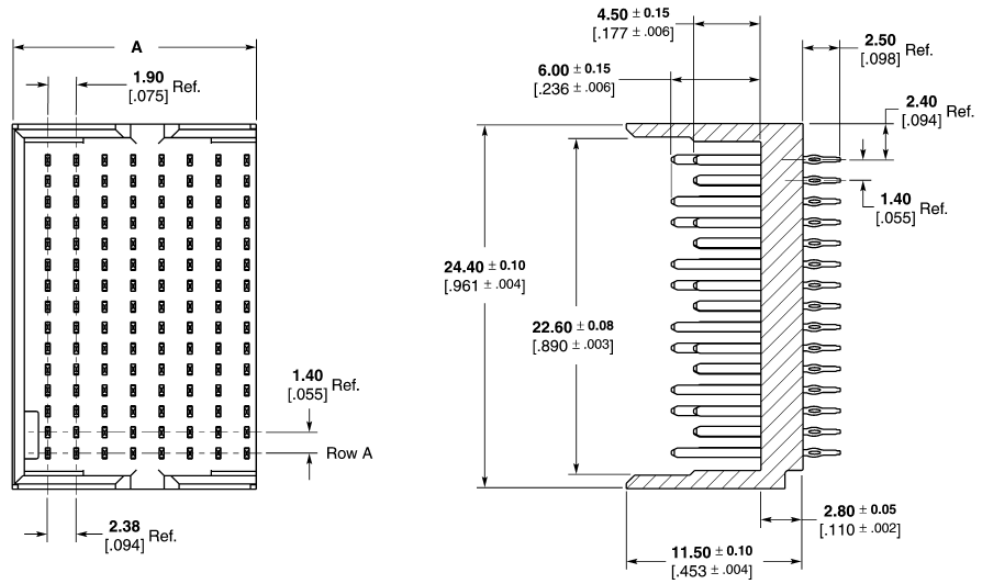
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Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

5 Pair Vertical Header Assemblies — Left End Wall

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934272-1	16.30 .642	13.30 .524	1-1804791-1	1934218-1
16	1934333-1	31.50 1.240	28.50 1.122	1-1804791-3	1934221-1

* Reference Application Specification 114-13202.



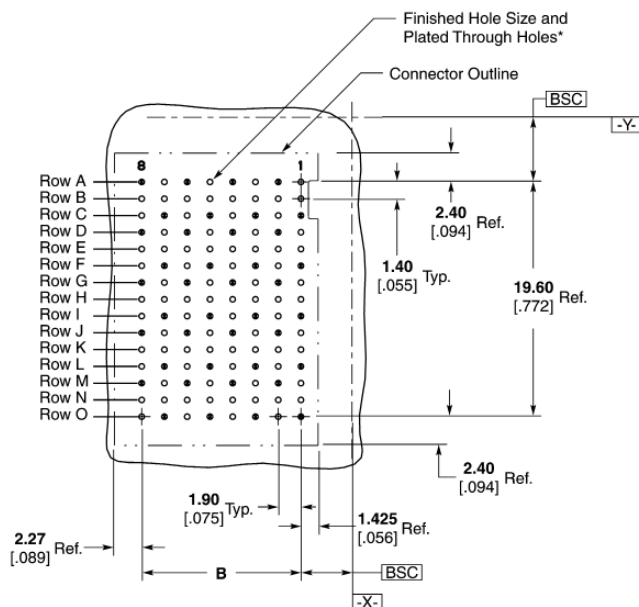
**Recommended PC Board Layout
Backplane
Component Side Shown**

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Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± .001]
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Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934273-1	17.00 .669	13.30 .524	1-1804791-1	1934218-1
16	1934334-1	32.20 1.268	28.50 1.122	1-1804791-3	1934221-1



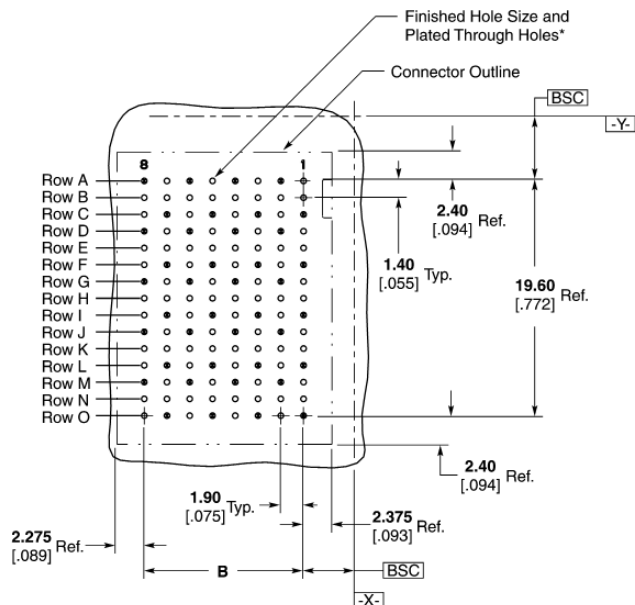
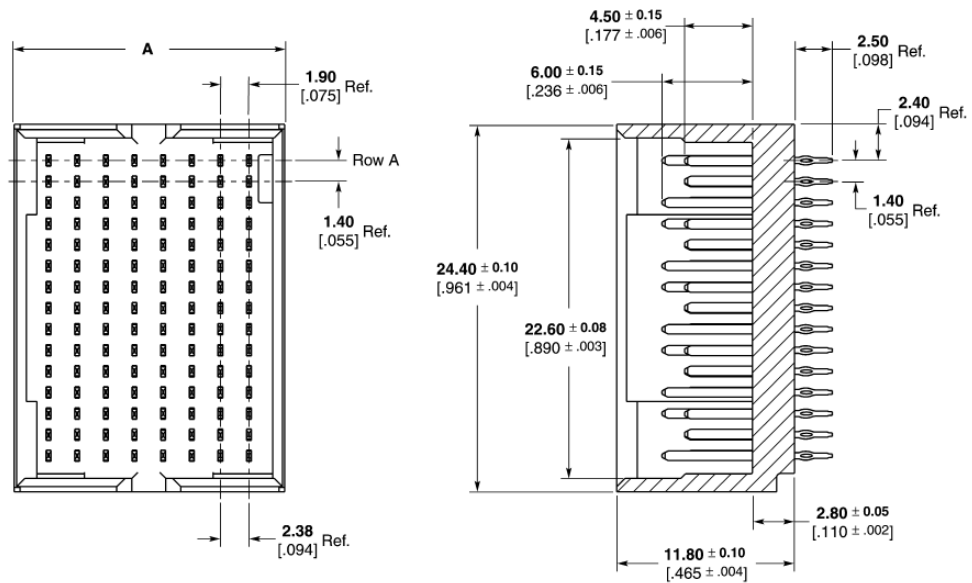
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 Finishes other than Tin-Lead. See Appl. Spec. 114-13202

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

5 Pair Vertical Header Assemblies — Double End Walls

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934271-1	17.95 .707	13.30 .524	1-1804791-1	1934218-1
10	1934326-1	21.75 .856	17.10 .673	1-1804791-7	1934220-1
16	1934332-1	33.15 1.305	28.50 1.122	1-1804791-3	1934221-1

* Reference Application Specification 114-13202.



**Recommended PC Board Layout
Backplane
Component Side Shown**

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

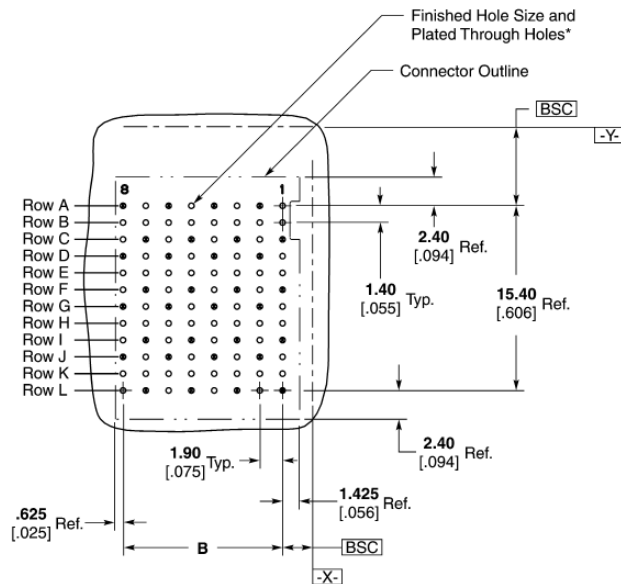
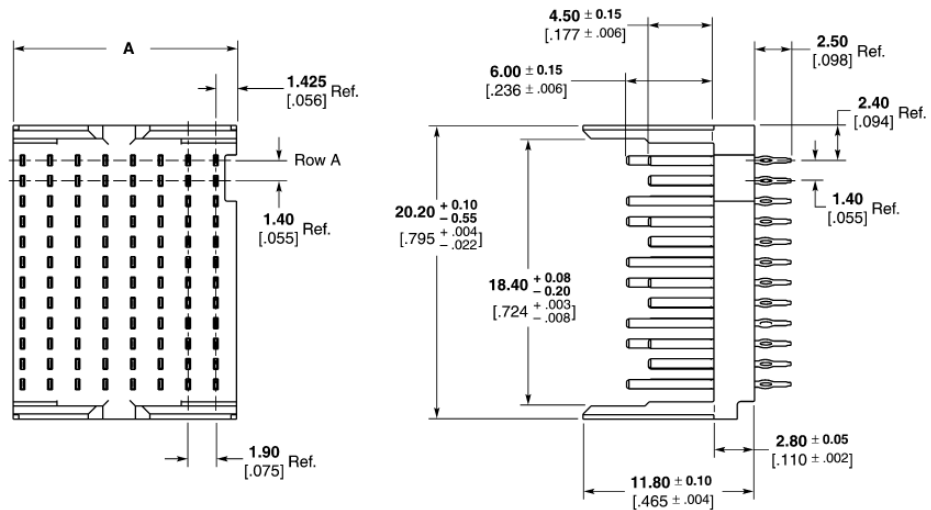
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Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

4 Pair Vertical Header Assemblies

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934305-1	15.35 .604	13.30 .524	1-1804790-1	1934222-1
10	1934311-1	19.15 .754	17.10 .673	1804790-5	1934224-1
16	1934315-1	30.55 1.202	28.50 1.122	1-1804790-3	1934225-1

* Reference Application Specification 114-13202.



**Recommended PC Board Layout
Backplane
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

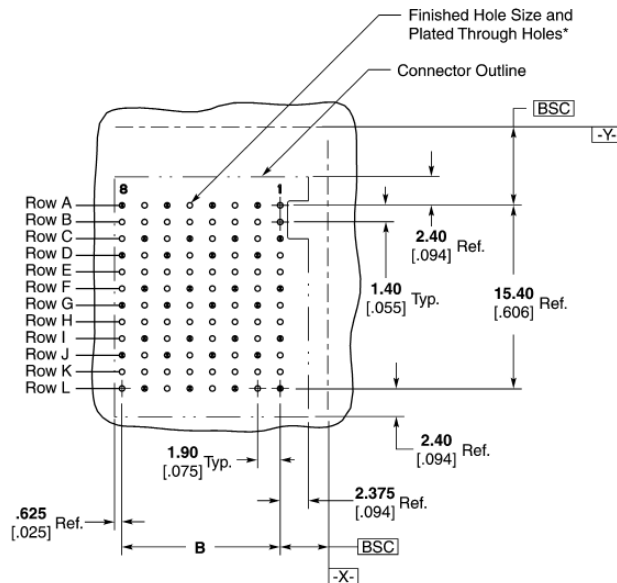
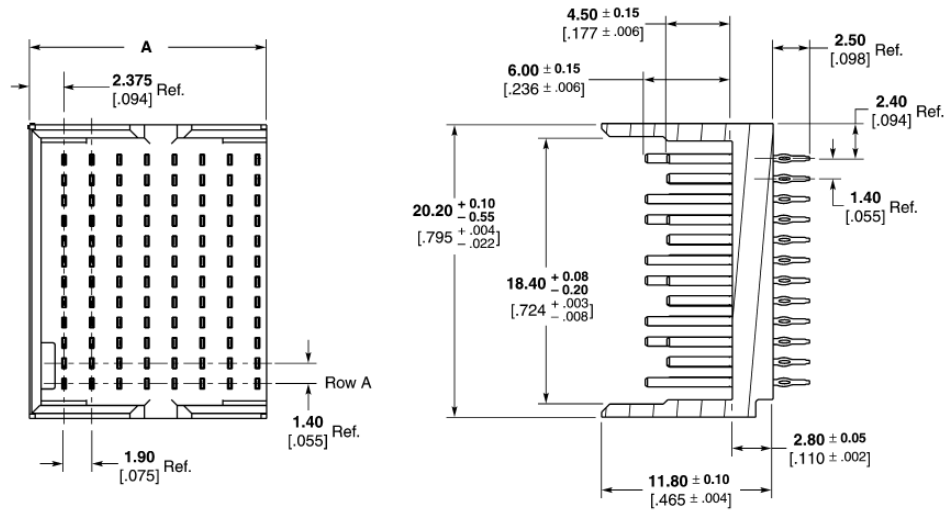
* Finished Hole Diameter = 0.46 ± 0.05 [0.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [0.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

4 Pair Vertical Header Assemblies — Left End Wall

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934303-1	17.00 .669	13.30 .524	1-1804790-1	1934222-1
16	1934317-1	31.50 1.240	28.50 1.122	1-1804790-3	1934225-1

* Reference Application Specification 114-13202.



**Recommended PC Board Layout
Backplane
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

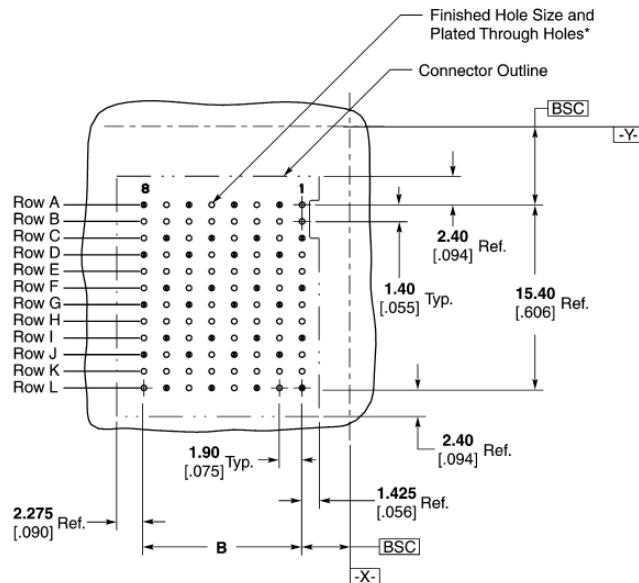
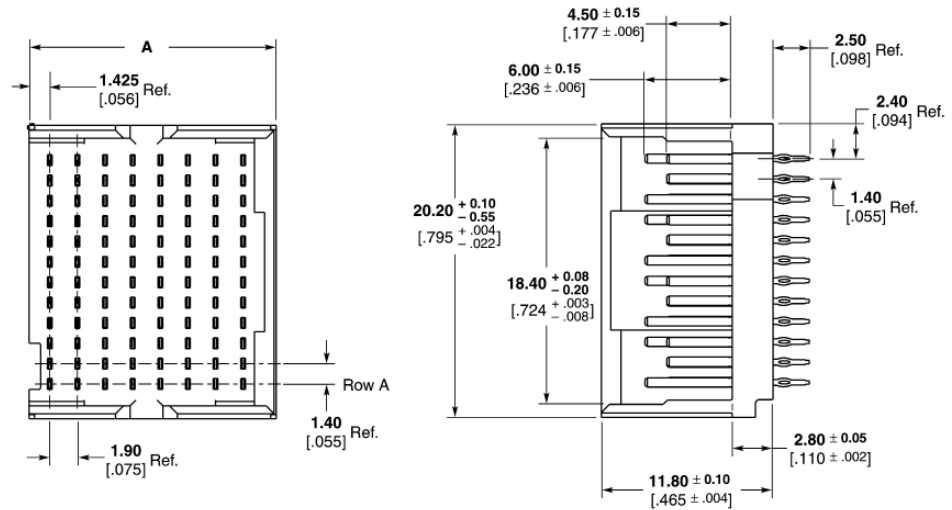
* Finished Hole Diameter = 0.46 ± 0.05 [.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

4 Pair Vertical Header Assemblies — Right End Wall

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934304-1	16.30 .642	13.30 .524	1-1804790-1	1934222-1
16	1934318-1	32.20 1.268	28.50 1.122	1-1804790-3	1934225-1

* Reference Application Specification 114-13202.



**Recommended PC Board Layout
Backplane
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

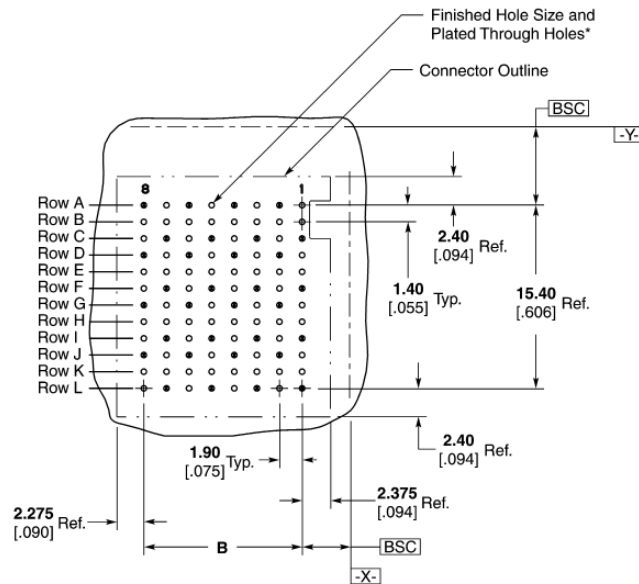
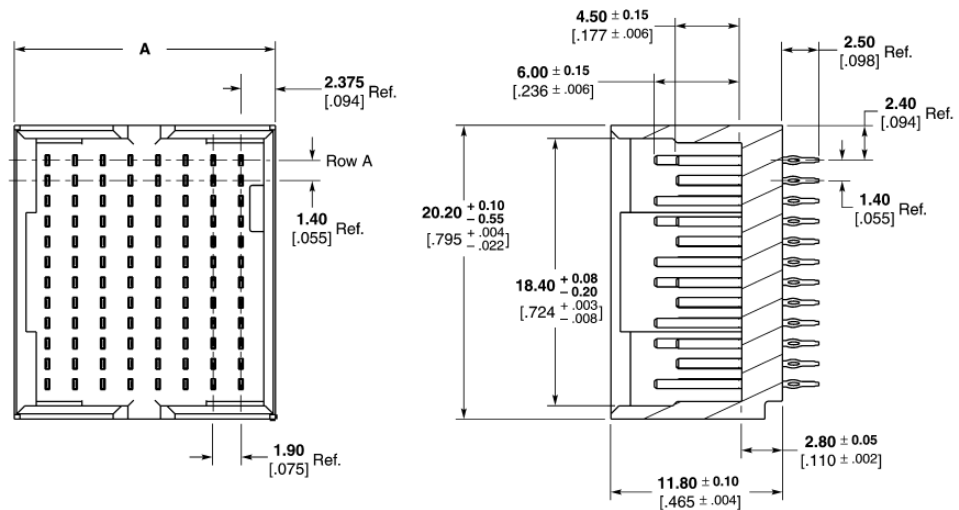
* Finished Hole Diameter = 0.46 ± 0.05 [.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

4 Pair Vertical Header Assemblies — Double End Walls

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934306-1	17.95 .707	13.30 .524	1-1804790-1	1934222-1
10	1934312-1	21.75 .856	17.10 .673	1804790-5	1934224-1
16	1934316-1	33.15 1.305	28.50 1.122	1-1804790-3	1934225-1

* Reference Application Specification 114-13202.



Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

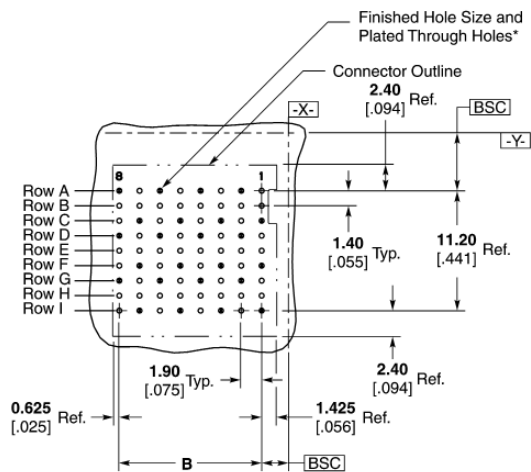
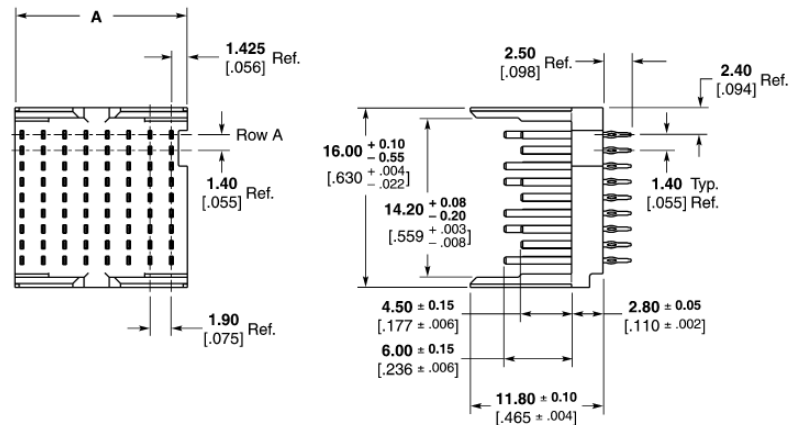
* Finished Hole Diameter = 0.46 ± 0.05 [.018 $\pm$.002]
 Drilled Hole Diameter = 0.55 ± 0.02 [.022 $\pm$.001]
 Copper Thickness = 0.038 ± 0.013 [.0015 $\pm$.0005]
 Tin-Lead Thickness = 0.008 ± 0.004 [.0003 $\pm$.0002]
 Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

3 Pair Vertical Header Assemblies

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934299-1	15.35 .604	13.30 .524	1-1901457-1	1934226-1
10	1934339-1	19.15 .754	17.10 .673	1-1901457-2	1934228-1
16	1934343-1	30.55 1.203	28.50 1.122	1-1901457-3	1934229-1

* Reference Application Specification 114-13202.



**Recommended PC Board Layout
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

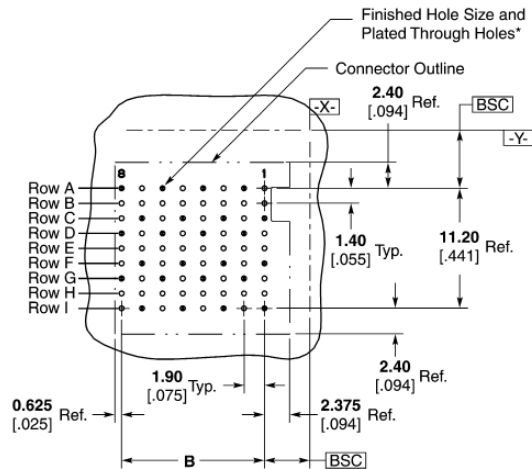
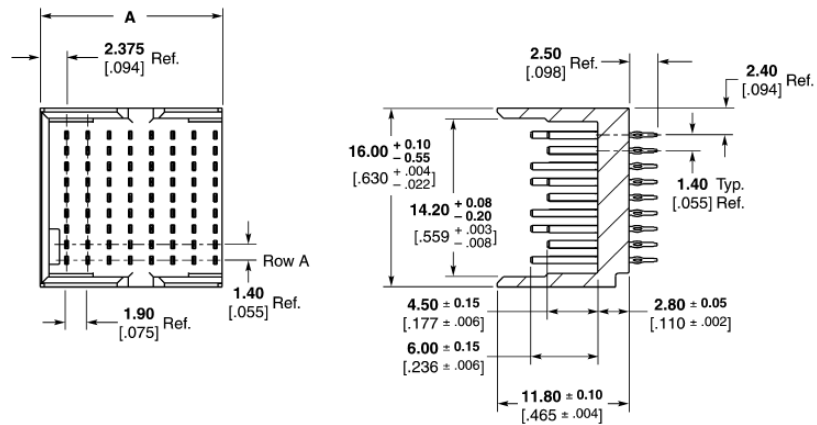
* Finished Hole Diameter = 0.46 ± 0.05 [0.018 ± 0.002]
Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± 0.001]
Copper Thickness = 0.038 ± 0.013 [0.0015 ± 0.0005]
Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± 0.0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

3 Pair Vertical Header Assemblies — Left End Wall

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934300-1	16.30 .642	13.30 .524	1-1901457-1	1934226-1
10	1934340-1	20.10 .791	17.10 .673	1-1901457-2	1934228-1
16	1934344-1	31.50 1.240	28.50 1.122	1-1901457-3	1934229-1

* Reference Application Specification 114-13202.



Recommended PC Board Layout
Component Side Shown

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

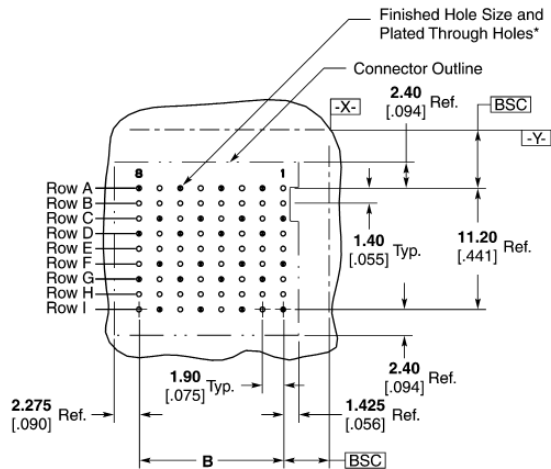
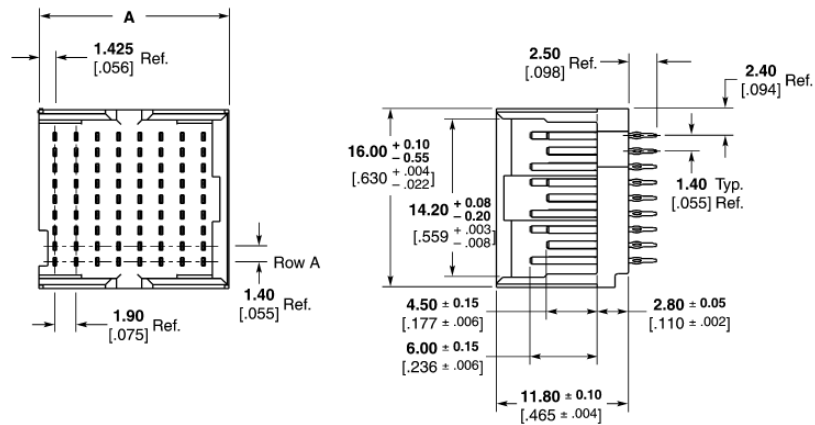
* Finished Hole Diameter = 0.46 ± 0.05 [.018 $\pm$.002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 $\pm$.001]
Copper Thickness = 0.038 ± 0.013 [.0015 $\pm$.0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 $\pm$.0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

3 Pair Vertical Header Assemblies — Right End Wall

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934301-1	17.00 .669	13.30 .524	1-1901457-1	1934226-1
10	1934341-1	20.08 .791	17.10 .673	1-1901457-2	1934228-1
16	1934345-1	32.20 1.268	28.50 1.122	1-1901457-3	1934229-1

* Reference Application Specification 114-13202.



Recommended PC Board Layout
Component Side Shown

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

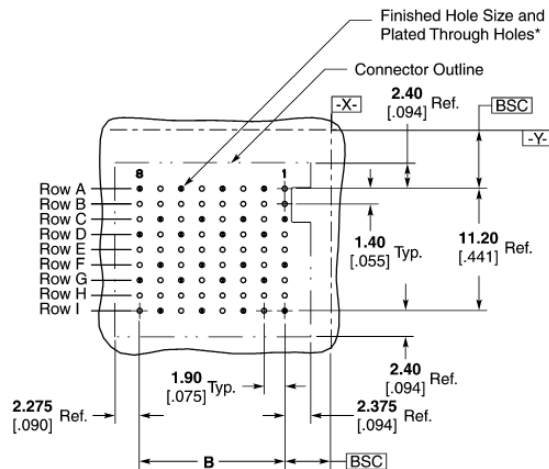
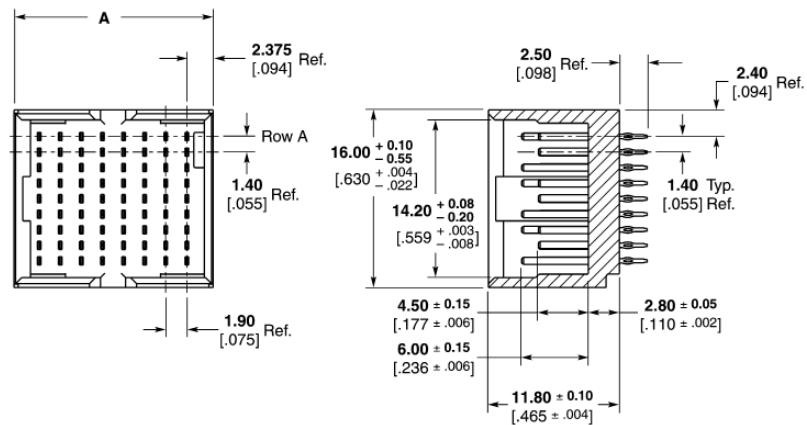
* Finished Hole Diameter = 0.46 ± 0.05 [0.018 ± 0.002]
Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± 0.001]
Copper Thickness = 0.038 ± 0.013 [0.0015 ± 0.0005]
Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± 0.0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

3 Pair Vertical Header Assemblies — Double End Walls

Column	Part Number	Dimension		Application Tooling*	Mates With
		A	B		
8	1934302-1	17.95 .707	13.30 .524	1-1901457-1	1934226-1
10	1934342-1	21.75 .856	17.10 .673	1-1901457-2	1934228-1
16	1934346-1	33.15 1.305	28.50 1.122	1-1901457-3	1934229-1

* Reference Application Specification 114-13202.



Recommended PC Board Layout
Component Side Shown

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

* Finished Hole Diameter = 0.46 ± 0.05 [0.018 ± 0.002]
Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± 0.001]
Copper Thickness = 0.038 ± 0.013 [0.0015 ± 0.0005]
Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± 0.0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934349-1	15.35 .604	13.30 .524	*	1934218-1
16	1934347-1	30.55 1.203	28.50 1.122	*	1934221-1

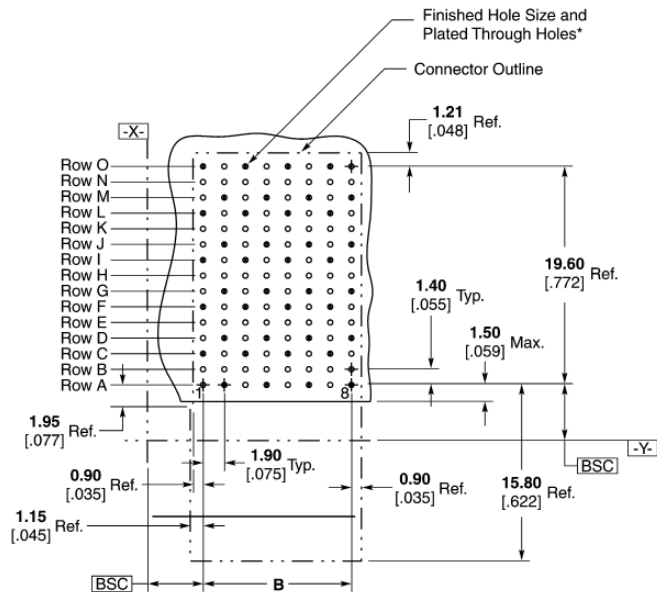
Technical drawing of a mechanical part showing two views: a front view on the left and a side view on the right. The front view shows a rectangular part with a grid of holes and a central section labeled 'Row A'. The side view shows the profile of the part with various features and dimensions. Dimensions are given in inches and millimeters.

Front View Dimensions:

- Overall width: A
- Top edge features: 1.90 ± 0.075 Ref. and 0.625 ± 0.025 Ref.
- Bottom edge features: 1.40 ± 0.055 Ref. and Row A

Side View Dimensions:

- Overall width: 27.61 ± 0.05 [1.087 $\pm$.002]
- Left edge features: 19.50 ± 0.0768 Ref.
- Bottom edge features: 2.20 ± 0.15 [0.087 $\pm$.006]
- Right edge features: 24.40 ± 0.10 [0.961 $\pm$.004] and 22.60 ± 0.08 [0.890 $\pm$.008]
- Internal features: 1.40 ± 0.055 Ref. and 1.70 ± 0.067 Ref.
- Bottom edge features: 19.60 ± 0.772 Ref.
- Right edge features: 4.50 ± 0.177 Ref., 6.00 ± 0.236 Ref., 9.00 ± 0.13 [0.354 $\pm$.005], and 6.80 ± 0.268 Ref.



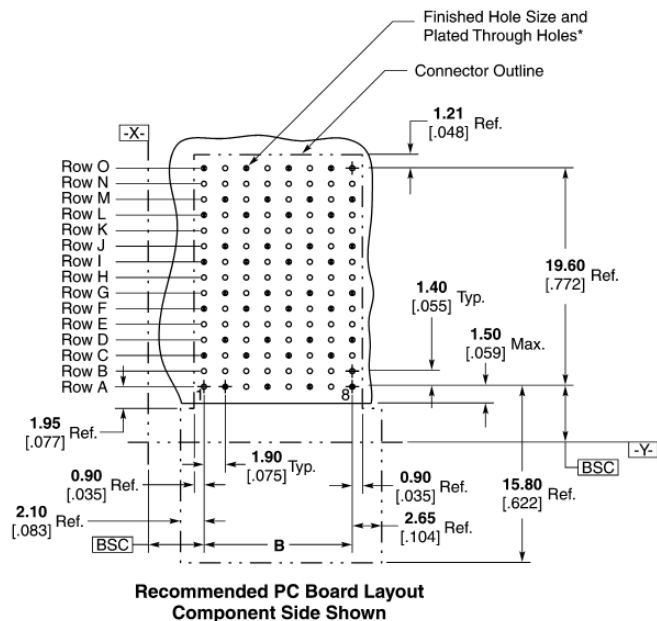
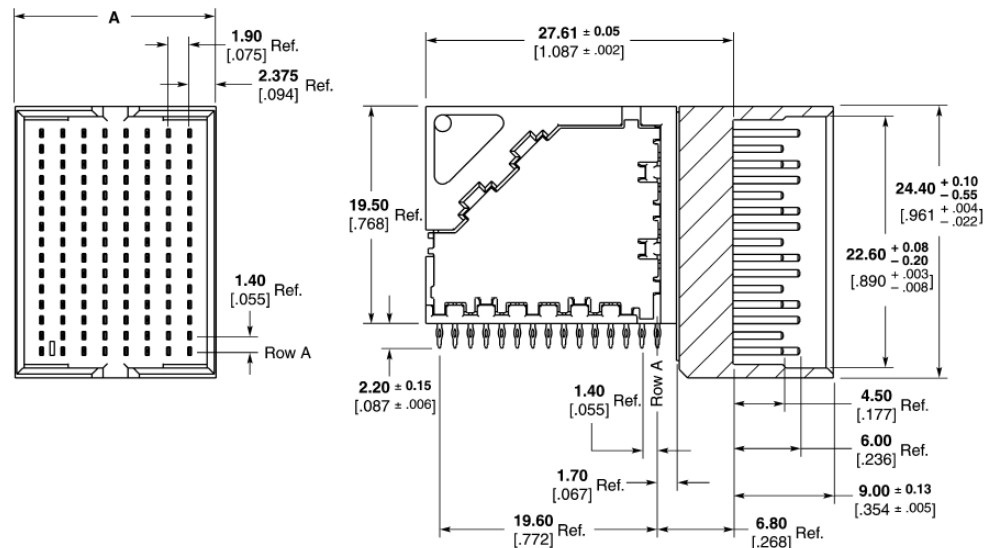
* Finished Hole Diameter = $0.46 \pm^{+0.05}_{-0.002}$ [018 $\pm^{+0.002}_{-0.001}$]
 Drilled Hole Diameter = $0.55 \pm^{+0.02}_{-0.001}$ [022 $\pm^{+0.001}_{-0.0005}$]
 Copper Thickness = $0.038 \pm^{+0.013}_{-0.0005}$ [0015 $\pm^{+0.0002}_{-0.0002}$]
 Tin-Lead Thickness = $0.008 \pm^{+0.004}_{-0.0003}$ [0003 $\pm^{+0.0002}_{-0.0002}$]
 Finishes other than Tin-Lead. See Appl. Spec. 114-13202

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

5 Pair Right Angle Pin Header Assemblies — Double End Walls

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934350-1	18.05 .711	13.30 .524	*	1934218-1
16	1934348-1	33.25 1.309	28.50 1.122	*	1934221-1

* Custom tooling not required. Utilizes flat-rock insertion tooling.
Reference Application Specification 114-13202.



Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

* Finished Hole Diameter = 0.46 ± 0.05 [.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934353-1	15.35 .604	13.30 .524	*	1934222-1
16	1934351-1	30.55 1.203	28.50 1.122	*	1934225-1

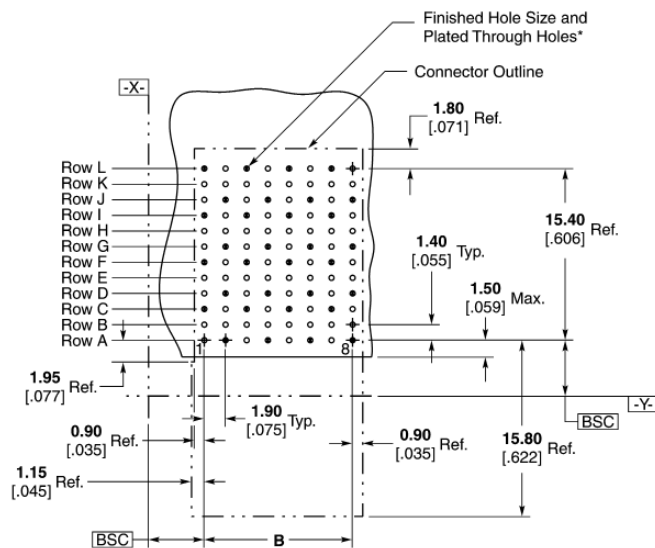
Technical drawing of a 16-pin connector. The drawing includes a side view on the left and a top view on the right. Dimensions are provided in inches and millimeters.

Side View Dimensions:

- Overall width: A
- Top flange thickness: 1.90 Ref. [$.075$]
- Bottom flange thickness: 0.625 Ref. [$.025$]
- Pin height: 1.40 Ref. [$.055$]
- Pin pitch: 0.10 Ref. [$.004$]
- Pin diameter: 0.05 Ref. [$.002$]

Top View Dimensions:

- Overall width: 24.00 ± 0.05 [$.945 \pm .002$]
- Pin pitch: 0.10 Ref. [$.004$]
- Pin diameter: 0.05 Ref. [$.002$]
- Pin height: 1.40 Ref. [$.055$]
- Pin pitch: 0.10 Ref. [$.004$]
- Pin diameter: 0.05 Ref. [$.002$]
- Pin height: 1.40 Ref. [$.055$]
- Pin pitch: 0.10 Ref. [$.004$]
- Pin diameter: 0.05 Ref. [$.002$]
- Pin height: 1.40 Ref. [$.055$]
- Pin pitch: 0.10 Ref. [$.004$]
- Pin diameter: 0.05 Ref. [$.002$]
- Pin height: 1.40 Ref. [$.055$]
- Pin pitch: 0.10 Ref. [$.004$]
- Pin diameter: 0.05 Ref. [$.002$]



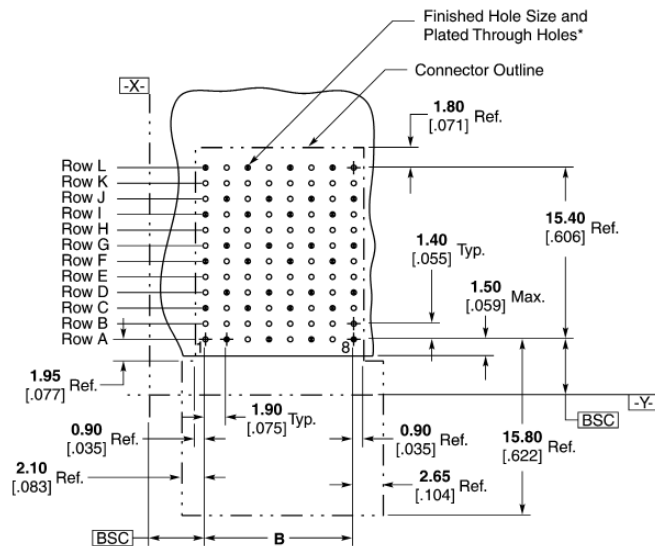
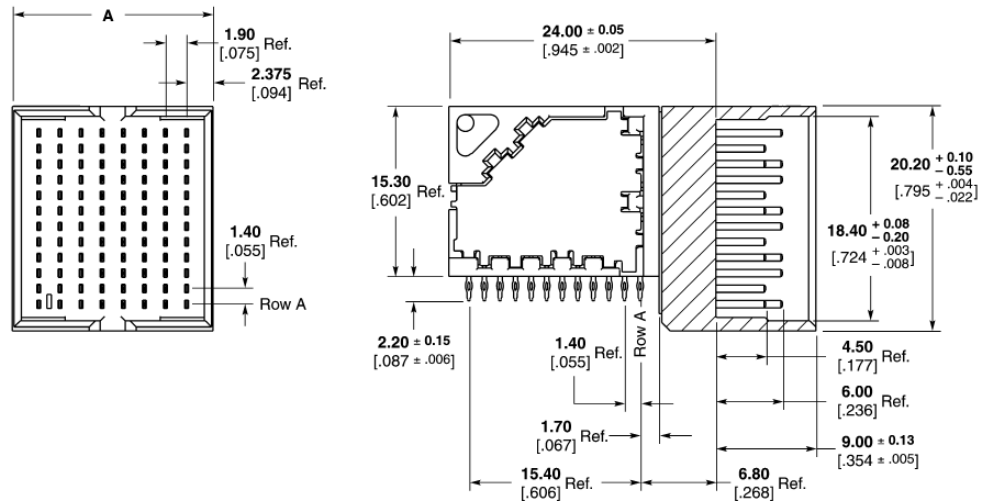
* Finished Hole Diameter = $0.46 \pm^{+0.05}_{-0.02}$ [.018 $\pm^{+0.002}_{-0.001}$]
 Drilled Hole Diameter = $0.55 \pm^{+0.02}_{-0.01}$ [.022 $\pm^{+0.001}_{-0.001}$]
 Copper Thickness = $0.038 \pm^{+0.013}_{-0.005}$ [.0015 $\pm^{+0.0005}_{-0.0005}$]
 Tin-Lead Thickness = $0.008 \pm^{+0.004}_{-0.003}$ [.0003 $\pm^{+0.0002}_{-0.0002}$]
 Finishes other than Tin-Lead, See App. Spec. 114-13202

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

4 Pair Right Angle Pin Header Assemblies — Double End Walls

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934354-1	18.05 [.711]	13.30 [.524]	*	1934222-1
16	1934352-1	33.25 [1.309]	28.50 [1.122]	*	1934225-1

* Custom tooling not required. Utilizes flat-rock insertion tooling.
Reference Application Specification 114-13202.



Recommended PC Board Layout
Component Side Shown

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

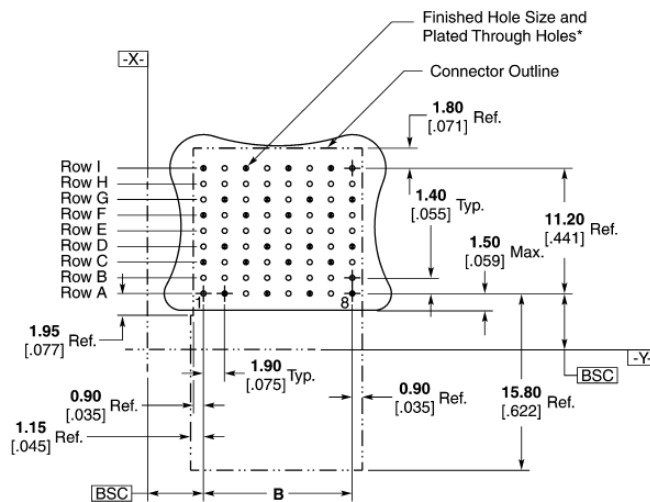
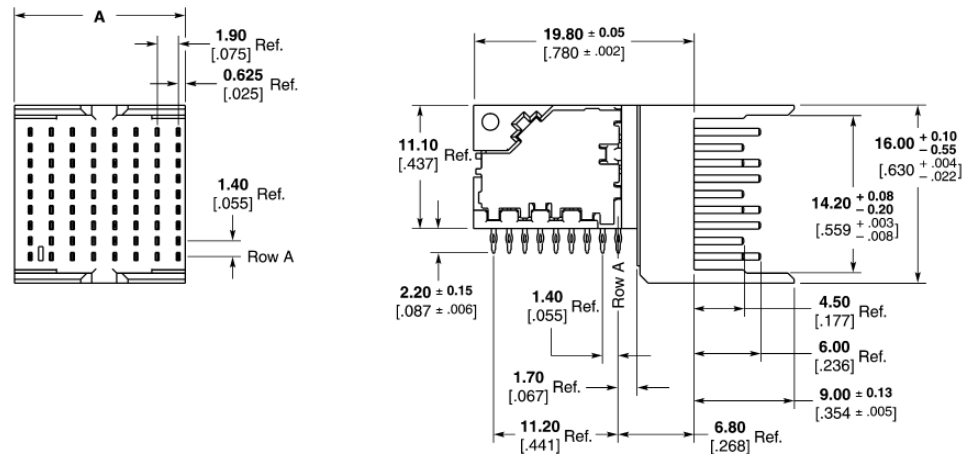
* Finished Hole Diameter = 0.46 ± 0.05 [.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

3 Pair Right Angle Pin Header Assemblies

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934359-1	15.35 .604	13.30 .524	*	1934226-1
10	1934357-1	19.15 .754	17.10 .673	*	1934228-1
16	1934355-1	30.55 1.203	28.50 1.122	*	1934229-1

* Custom tooling not required. Utilizes flat-rock insertion tooling.
Reference Application Specification 114-13202.



**Recommended PC Board Layout
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

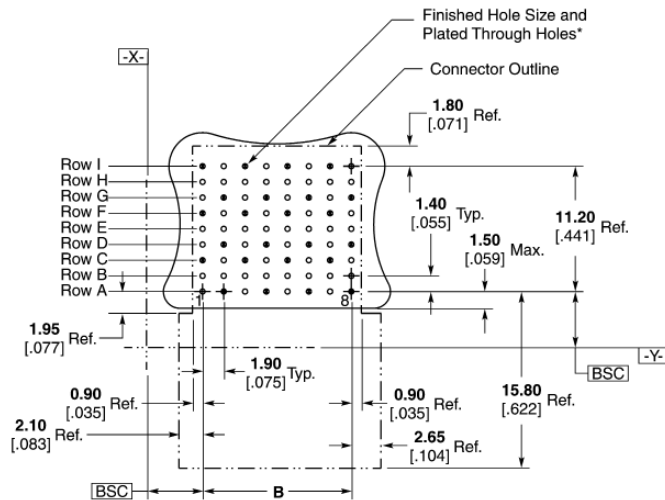
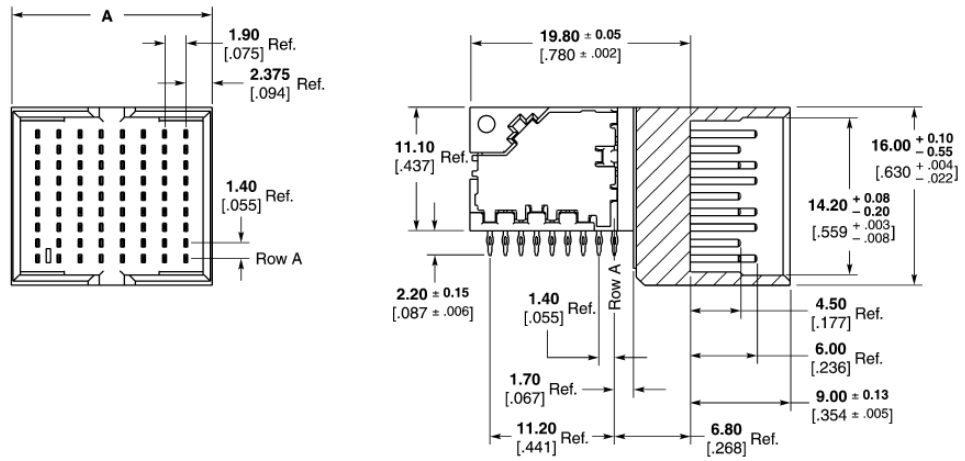
* Finished Hole Diameter = 0.46 ± 0.05 [.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

3 Pair Right Angle Pin Header Assemblies — Double End Walls

Column	Part Number	Dimension		Application Tooling	Mates With
		A	B		
8	1934360-1	18.05 .711	13.30 .524	*	1934226-1
10	1934358-1	21.85 .860	17.10 .673	*	1934228-1
16	1934356-1	33.25 1.309	28.50 1.122	*	1934229-1

* Custom tooling not required. Utilizes flat-rock insertion tooling.
Reference Application Specification 114-13202.



**Recommended PC Board Layout
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

* Finished Hole Diameter = 0.46 ± 0.05 [.018 $\pm$.002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 $\pm$.001]
Copper Thickness = 0.038 ± 0.013 [.0015 $\pm$.0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 $\pm$.0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

Z-PACK TinMan Midplane (Orthogonal) Connector Overview

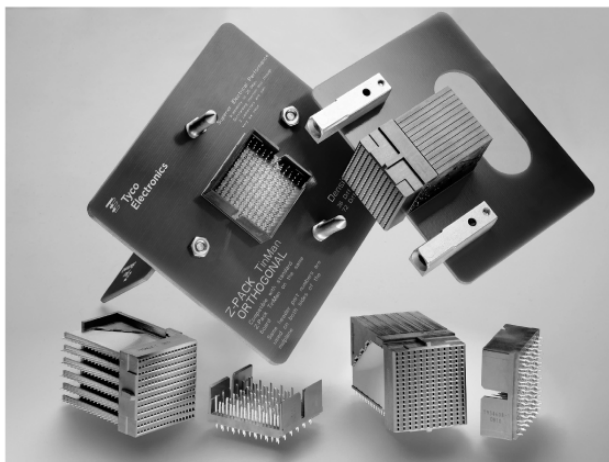
Product Facts

- Scalable to 25 Gbps
- 100 ohm impedance for differential pair configuration
- Very low noise
- Outstanding insertion loss through 2 connectors and vias
- Skewless differential pair in a 2-connector system
- Utilizes the same header and receptacle part on both sides of the midplane
- Compatible with standard Z-PACK TinMan connectors and accessories
- 4 pair x 4 pair and 6 pair x 6 pair modules available
- Reliable, redundant contact design on all contacts
- Reliable press-fit style termination to PCB
- RoHS compliant

Applications

The Z-PACK TinMan midplane (orthogonal) connector is ideally designed for very demanding applications involving data rates in excess of 10 Gbps with many interconnections required. Such applications would include the following Telecom/Datacom equipment:

- Switches
- Servers
- Routers
- Storage



The Z-PACK TinMan midplane (orthogonal) connector is an extension of the Z-PACK TinMan connector product line, which includes perpendicular and coplanar interconnect solutions in 3 pair, 4 pair, and 5 pair versions.

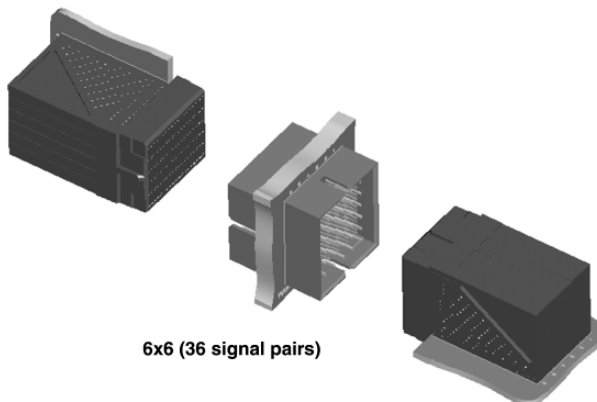
This connector system is commonly referred to as an orthogonal connector system due to the orthogonal (perpendicular) orientation of the two system boards being connected on the front and rear side. It is built on the same technology and design approach as standard Z-PACK TinMan connectors with the same mating interface and lead-frame geometry.

Superior electrical performance is achieved for several reasons. The front board to

rear board connection through the midplane makes the plated through hole (PTH) part of the signal transmission path eliminating the detrimental effects of via stubs. This construction also eliminates the need to route all the high speed signal lines along the backplane minimizing signal loss and significantly improving signal throughput. The wide column spacing establishes a connector footprint with improved impedance and reduced electrical noise. The in-line footprint version also provides ease of trace routing with wide channels and a connector interface compatible with the orthogonal receptacle. This permits the use of the same daughtercard in both midplane and backplane configurations.

The benefits are not limited to just signal integrity performance. The thinner midplane with fewer layers and significantly less complex routing is inherently less expensive. With trace routing typically limited to power distribution, low speed lines and potentially very few high speed links, the board can be fabricated from a cost effective material without the need to utilize techniques such as counter-boring or back-drilling.

All of this permits the implementation of small to large scale full mesh interconnects with significantly reduced complexity at a lower cost and with improved signal integrity.



For additional information visit:
<http://www.tycoelectronics.com/zpacktinman>

Z-PACK TinMan Midplane (6 x 12 Orthogonal) Connector Overview

Noise Table

- Maximum, multiple source crosstalk

Technical Documents

Product Specification 108-2303

Application Specification
114-13202

Routing Guide Report #27GC002

Material and Finish

Signal Contact — High Strength
Copper Alloy

Ground Contact — High Strength
Copper Alloy

Housing — Liquid Crystal Polymer,
UL 94V-0 Rated

Platings — Telcordia compliant inter-
face, Nickel underplate

Compliant Pin Plating —
RoHS Compliant

Ratings

Temperature Range —
-65°C to +90°C

Current Rating — 0.5 A/contact @
< 30°C T-Rise

Durability — 200 cycles

Dielectric Withstanding Voltage —
560 VAC

Operating Voltage — 250 VAC max.

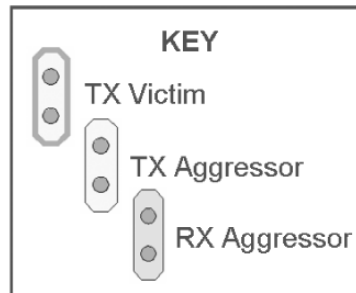
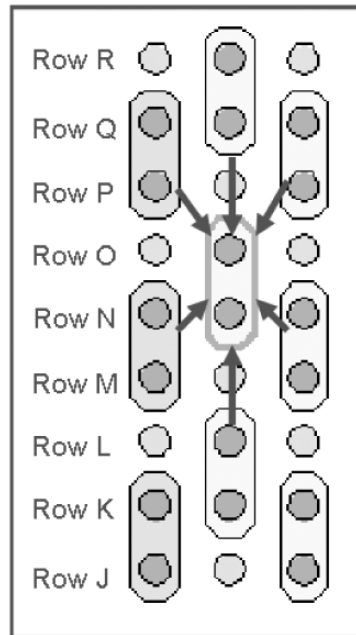
Signal Integrity

Characteristic Impedance —
Differential @ 100 ohms $\pm 10\%$

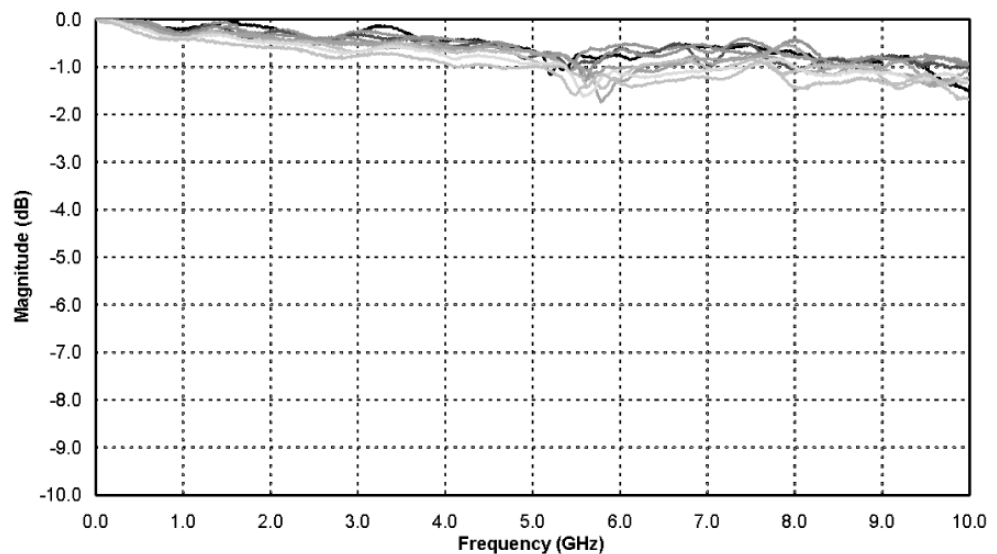
Crosstalk — Multi-pair differential
crosstalk: 1.0% @ 50ps

Insertion Loss — -2 dB @ 10 GHz

Pair	Total Peak
AB	1.2%
BC	N/A
DE	2.5%
EF	2.4%
GH	2.5%
HI	2.7%
JK	2.8%
KL	2.8%
MN	3.0%
NO	2.9%
PQ	2.3%
QR	1.4%



Insertion Loss Plot



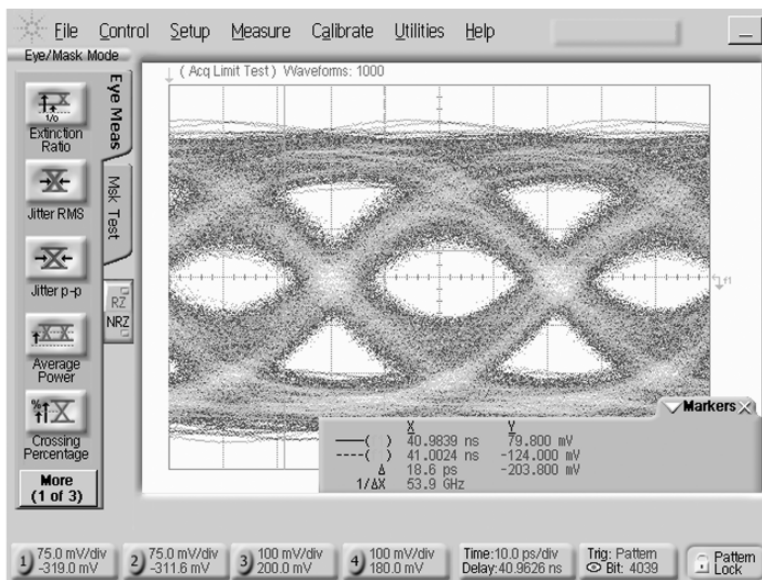
— SDD21 Mag(dB) AB Pair	— SDD21 Mag(dB) DE Pair	— SDD21 Mag(dB) EF Pair
— SDD21 Mag(dB) GH Pair	— SDD21 Mag(dB) HI Pair	— SDD21 Mag(dB) JK Pair
— SDD21 Mag(dB) KL Pair	— SDD21 Mag(dB) MN Pair	— SDD21 Mag(dB) NO Pair

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Z-PACK TinMan Midplane (6 x 12 Orthogonal) Connector Overview (Continued)

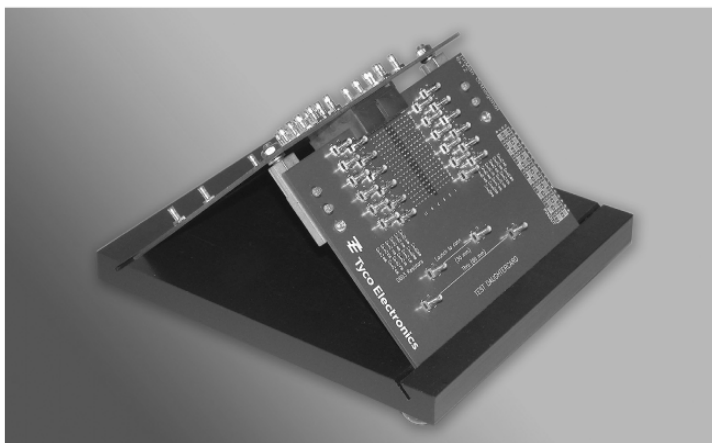
Representative Eye Pattern

- 10.0 Gbps data rate
- 2⁷ -1 PRBS
- Unequalized Signal



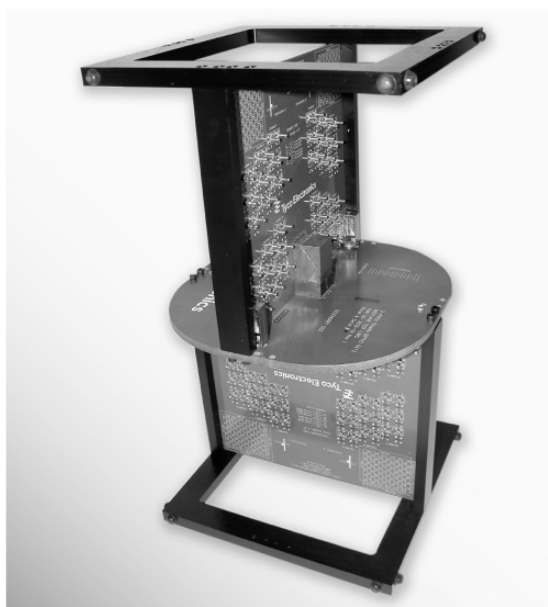
Customer Connector Evaluation Kit

- Connector characterization
- Available for loan — contact your local Tyco Electronics Sales Engineer
- Time and frequency domain testable
- Testable to 18+ GHz (25+ Gb/s)
- Multiple calibration options
- Convenient SMA interface



Customer System Evaluation Kit

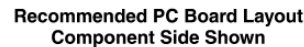
- System characterization
- Available for loan — contact your local Tyco Electronics Sales Engineer
- Time and frequency domain testable
- Testable to 18+ GHz (25+ Gb/s)
- Multiple calibration options
- Convenient SMA interface



1

**Mates with
Part Number 1934607-1 and
Part Number 1934608-1**

Z-PACK TinMan High Speed, High Density Backplane Connector



* Finished Hole Diameter = $0.46 \pm^{+0.05}_{-0.002}$ [0.018 $\pm^{+0.002}_{-0.001}$]
 Drilled Hole Diameter = $0.55 \pm^{+0.02}_{-0.001}$ [0.022 $\pm^{+0.001}_{-0.0005}$]
 Copper Thickness = $0.038 \pm^{+0.013}_{-0.0005}$ [0.0015 $\pm^{+0.0005}_{-0.0002}$]
 Tin-Lead Thickness = $0.008 \pm^{+0.004}_{-0.0003}$ [0.0003 $\pm^{+0.0002}_{-0.0001}$]
 Finishes other than Tin-Lead, See App. Spec. 114-13202

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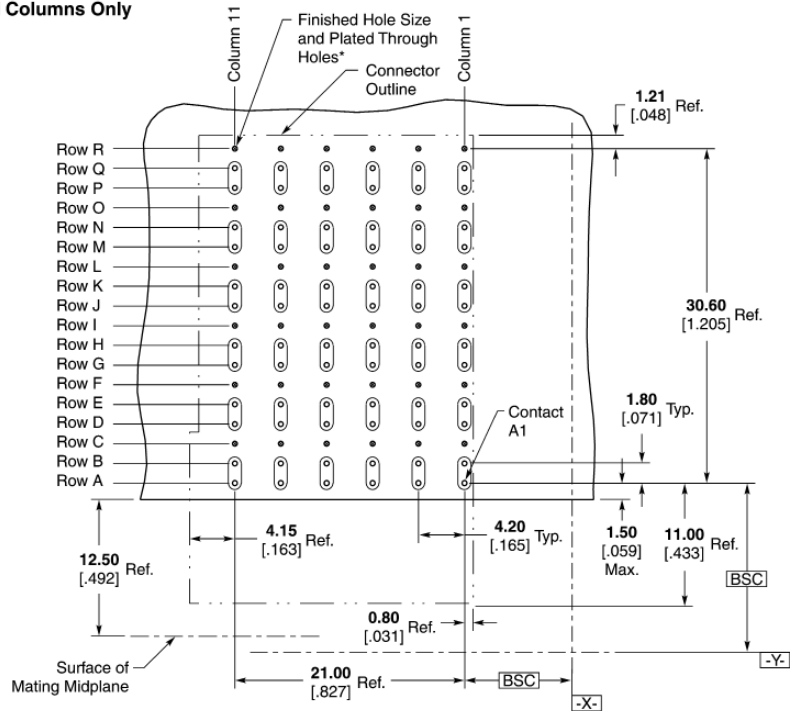
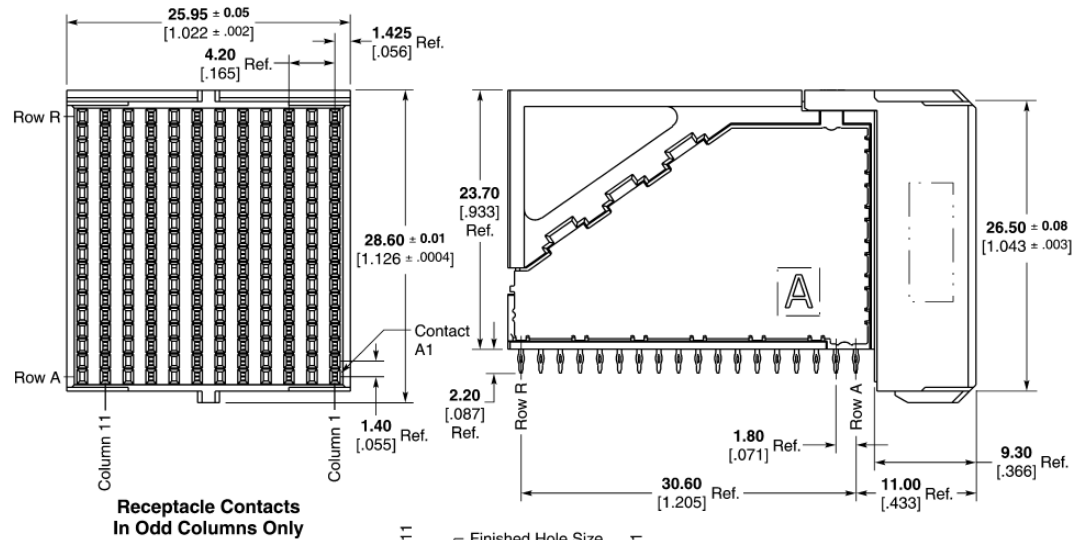
Z-PACK TinMan Orthogonal 6 Pair Midplane Assemblies (Continued)

6 Pair 6 Column Receptacle Assembly A

Part Number 1934634-1

Reference Application
Specification
114-13202

Mates with
Part Number 1934609-1 and
Part Number 1934610-1



**Recommended PC Board Layout
Component Side Shown**

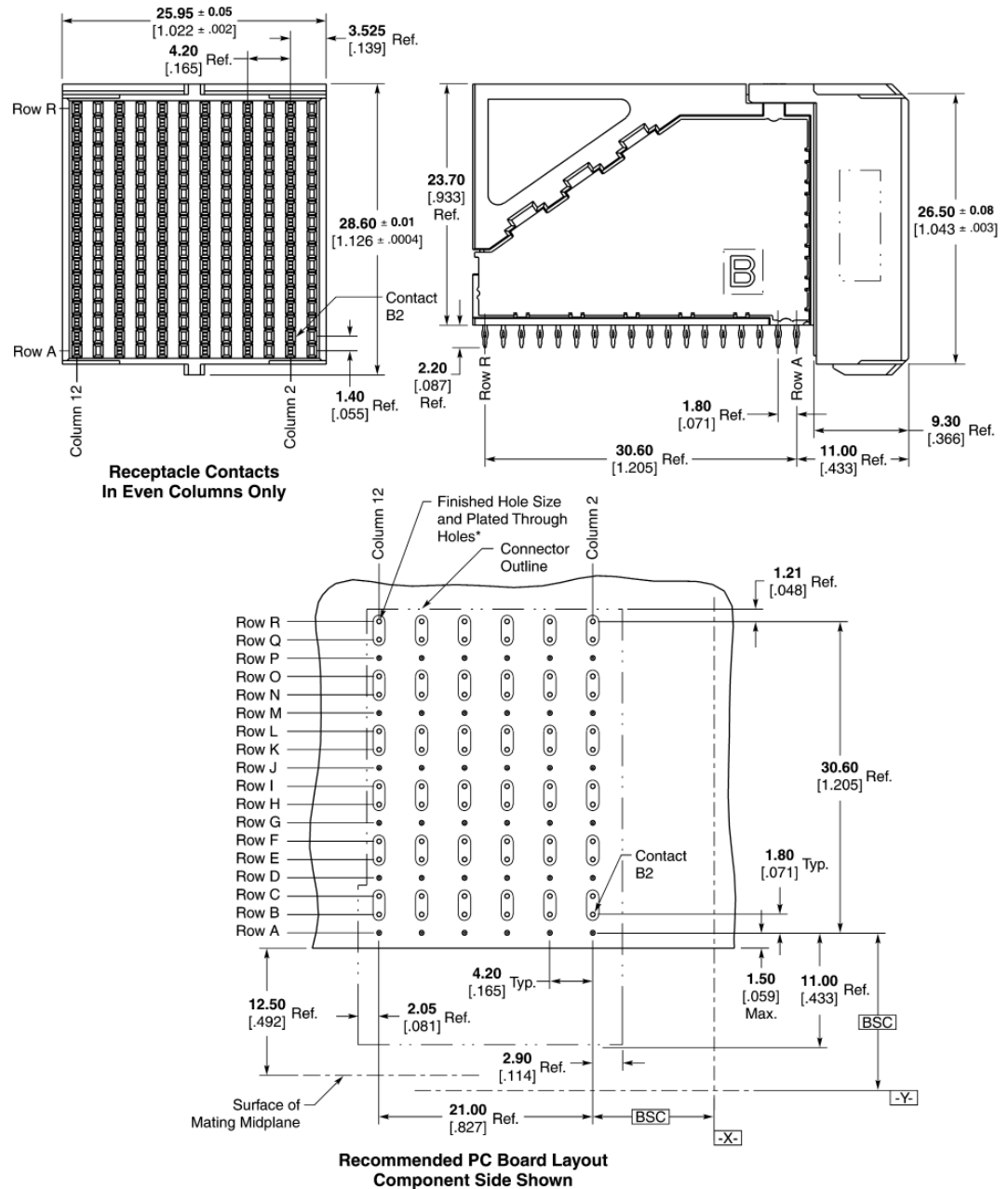
Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

* Finished Hole Diameter = 0.46 ± 0.05 [.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

1

**Mates with
Part Number 1934609-1 and
Part Number 1934610-1**



* Finished Hole Diameter = $0.46 \pm^{+0.05}_{-0.002}$ [018 ±^{+0.002}]
 Drilled Hole Diameter = $0.55 \pm^{+0.02}_{-0.001}$ [022 ±^{+0.001}]
 Copper Thickness = $0.038 \pm^{+0.013}_{-0.005}$ [0015 ±^{+0.005}]
 Tin-Lead Thickness = $0.008 \pm^{+0.004}_{-0.0003}$ [0003 ±^{+0.0002}]
 Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

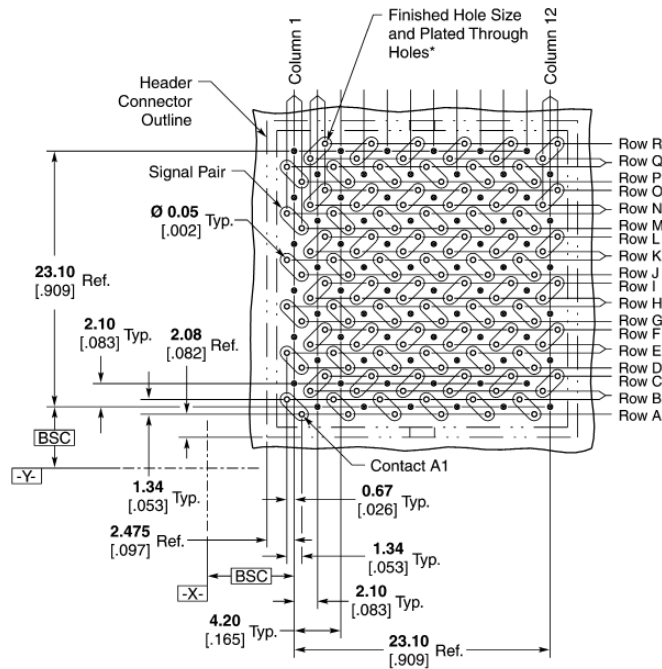
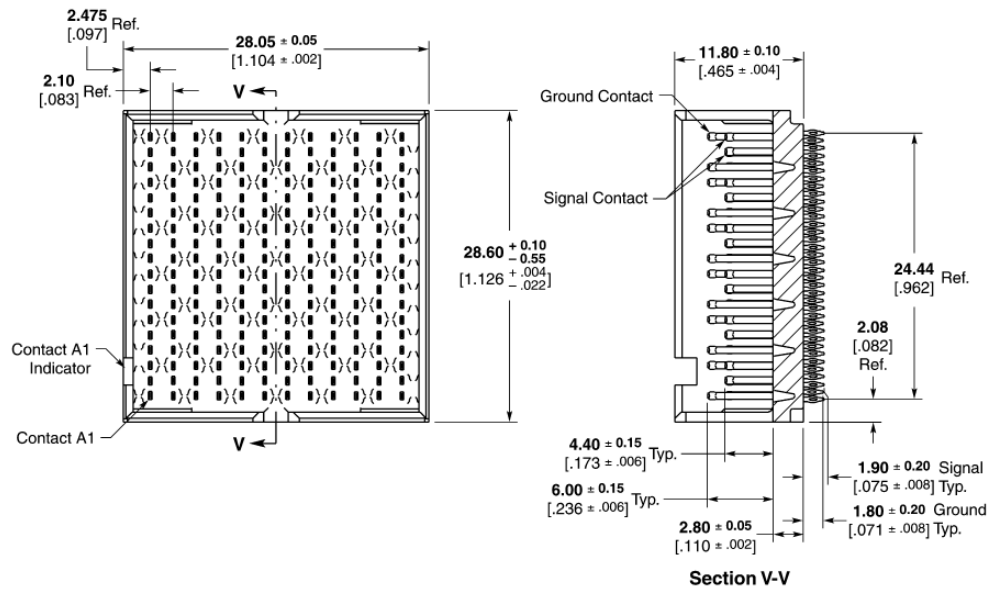
Z-PACK TinMan Orthogonal 6 Pair Midplane Assemblies (Continued)

6 Pair 12 Column Double Wall Header Assembly

Part Number 1934608-1

Reference Application
Specification
114-13202

Mates with
Part Number 1934633-1



**Recommended PC Board Layout
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

* Finished Hole Diameter = 0.46 ± 0.05 [.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

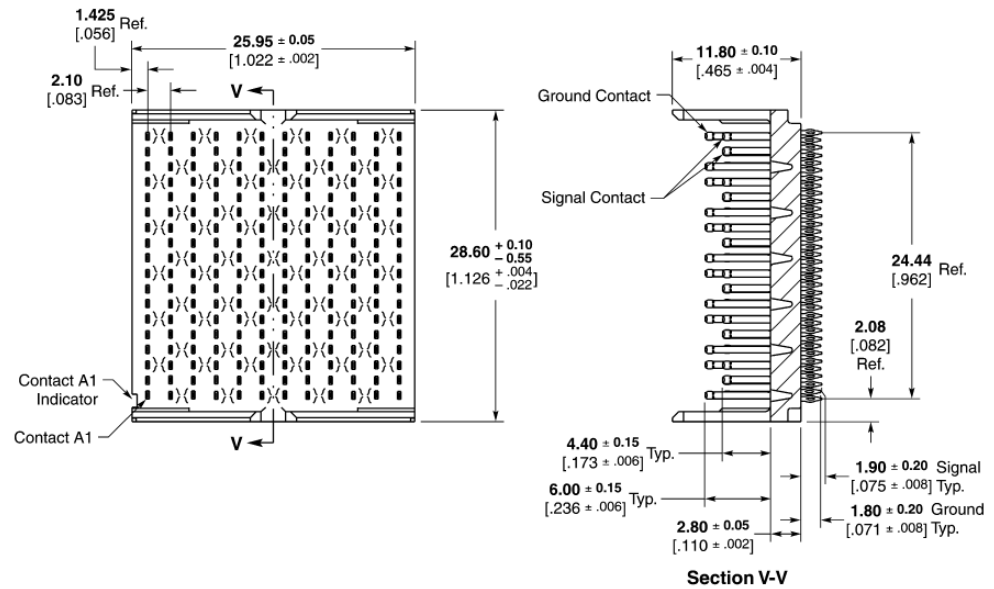
Z-PACK TinMan Orthogonal 6 Pair Midplane Assemblies (Continued)

6 Pair 12 Column Open Ended Header Assembly

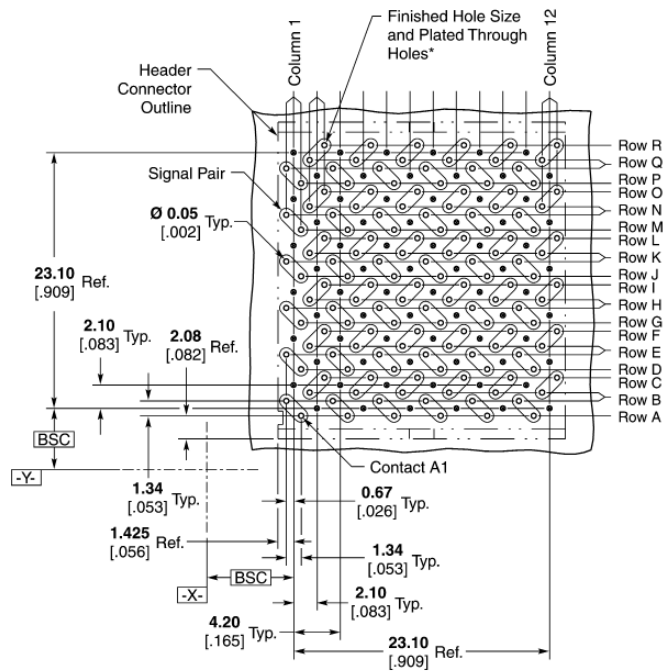
Part Number 1934607-1

Reference Application
Specification
114-13202

Mates with
Part Number 1934633-1



Section V-V



Recommended PC Board Layout
Component Side Shown

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

* Finished Hole Diameter = 0.46 ± 0.05 [0.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [0.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

Z-PACK TinMan Orthogonal 6 Pair Midplane Assemblies (Continued)

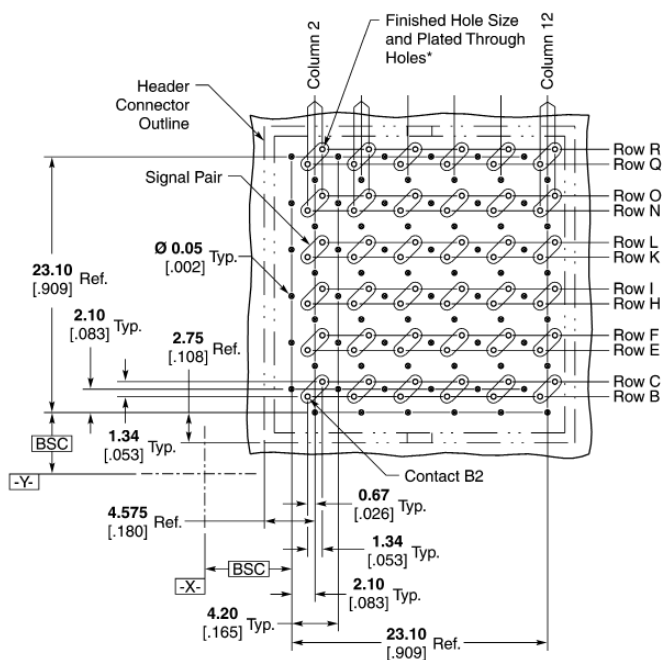
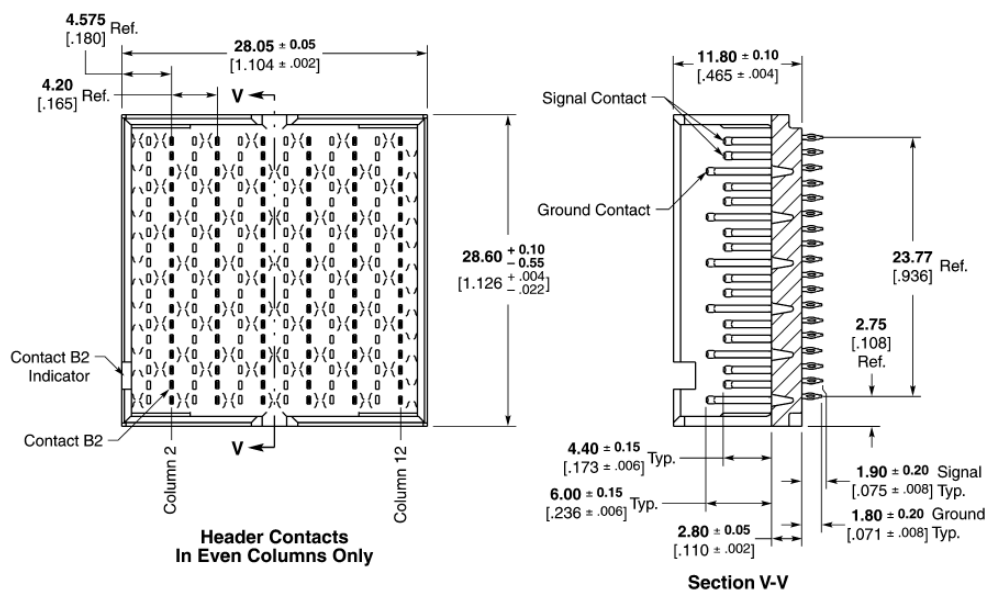
6 Pair 6 Column Double Wall Header Assembly

Part Number 1934610-1

Reference Application Specification

114-13202

**Mates with
Part Number 1934634-1 and
Part Number 1934760-1**



**Recommended PC Board Layout
Component Side Shown**

Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

* Finished Hole Diameter = $0.46 \pm^{+0.05}_{-0.002}$ [0.018 $\pm^{+0.002}_{-0.001}$]
 Drilled Hole Diameter = $0.55 \pm^{+0.02}_{-0.001}$ [0.022 $\pm^{+0.001}_{-0.0005}$]
 Copper Thickness = $0.038 \pm^{+0.013}_{-0.0005}$ [0.0015 $\pm^{+0.0005}_{-0.0002}$]
 Tin-Lead Thickness = $0.008 \pm^{+0.004}_{-0.0003}$ [0.0003 $\pm^{+0.0002}_{-0.0002}$]
 Finishes other than Tin-Lead. See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

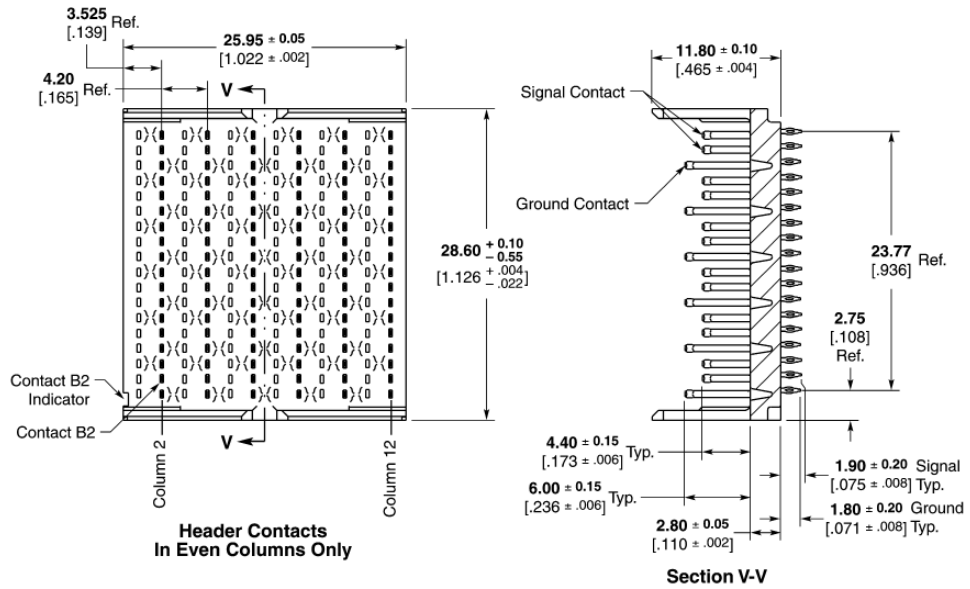
Z-PACK TinMan Orthogonal 6 Pair Midplane Assemblies (Continued)

6 Pair 6 Column Open Ended Header Assembly

Part Number 1934609-1

Reference Application
Specification
114-13202

Mates with
Part Number 1934634-1 and
Part Number 1934760-1



Note: For additional information on pcb routing guidelines, reference the Z-PACK TinMan Connector Routing Guide Report #27GC001-1.

* Finished Hole Diameter = 0.46 ± 0.05 [0.018 ± .002]
Drilled Hole Diameter = 0.55 ± 0.02 [0.022 ± .001]
Copper Thickness = 0.038 ± 0.013 [0.0015 ± .0005]
Tin-Lead Thickness = 0.008 ± 0.004 [0.0003 ± .0002]
Finishes other than Tin-Lead, See Appl. Spec. 114-13202

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors.

Z-PACK TinMan Product Mating Sequence Chart



Product Family	Dim. C	Dim. A Fully Mated	Contact	Dim. B.		Fully Mated Wipe Length
				Reliable Mate	First Mate Last Break	
Z-PACK HM-Zd Product	1.50 .059	12.50 .492	Ground Shield	16.78 [.661]	17.55 [.691]	4.28 [.169]
			Signal Level 2	15.41 [.607]	15.85 [.624]	2.91 [.115]
			Signal Level 1	13.91 [.548]	14.35 [.565]	1.41 [.056]
Z-PACK HM-Zd Guide Hardware	3.00 .118	12.50 .492	24.0 mm Pin	27.50 [1.083]	33.40 [1.315]	N/A
			22.2 mm Pin	25.70 [1.012]	31.60 [1.244]	N/A
			Key Blocking Point	N/A	22.03 [.867]	N/A
Z-PACK TinMan Product	1.50 .059	12.50 .492	Ground Pins	16.44 [.647]	17.13 [.674]	3.94 [.155]
			Signal Level 2	14.94 [.588]	15.63 [.615]	2.44 [.096]
			Signal Level 1	N/A	N/A	N/A
Z-PACK 2mm HM Product	1.50 .059	12.50 .492	Signal Level 3	18.27 [.719]	18.84 [.742]	5.77 [.227]
			Signal Level 2	16.77 [.660]	17.34 [.683]	4.27 [.168]
			Signal Level 1	15.27 [.601]	15.84 [.624]	2.77 [.109]
MULTIGIG RT T1 Product	2.50 .098	12.50 .492	Ground	18.00 [.709]	—	5.50 [.217]
			Signal Level 3	18.00 [.709]	—	5.50 [.217]
			Signal Level 2	16.50 [.650]	—	4.00 [.157]
MULTIGIG RT T2 Product	2.25 .089	12.50 .492	Signal Level 1	15.00 [.591]	—	2.50 [.098]
			Ground	18.00 [.709]	—	5.50 [.217]
			Signal Level 3	18.00 [.709]	—	5.50 [.217]
MULTIGIG RT Power Module	5.50 .217	12.50 .492	Signal Level 2	16.50 [.650]	—	4.00 [.157]
			Signal Level 1	15.00 [.591]	—	2.50 [.098]
			Power Level 3	23.75 [.935]	—	11.25 [.443]
MULTIGIG RT Guide Hardware	N/A	12.50 .492	Power Level 2	22.25 [.876]	—	9.75 [.384]
			Power Level 1	20.75 [.817]	—	8.25 [.325]
			Guide Pin Key	33.25 [1.309]	N/A	20.75 [.817]
Z-PACK HS3 Product	1.50 .059	12.50 .492	Guide ESD Contact	30.75 [1.211]	—	18.25 [.719]
			Ground	17.08 [.672]	17.60 [.693]	4.78 [.188]
			Signal Level 2	16.05 [.632]	16.47 [.648]	3.75 [.148]
UPM	3.50 .138	12.50 .492	Signal Level 1	14.55 [.573]	14.97 [.589]	2.25 [.089]
			Power Level 3	20.25 [.797]	20.95 [.825]	8.10 [.319]
			Power Level 2	18.65 [.734]	19.35 [.762]	6.50 [.256]
UPM Guide Hardware	5.75 .226	12.50 .492	Power Level 1	17.03 [.670]	17.73 [.698]	4.88 [.192]
			Guide Pin Key	31.39 [1.236]	36.16 [1.424]	N/A
			Keyed Guide Pin	31.39 [1.236]	36.16 [1.424]	N/A
MULTI-BEAM XL Right Angle Header to Vertical Receptacle	5.08 .200	14.73 .580	Keyed Guide Pin	35.23 [1.387]	40.00 [1.575]	N/A
			PreMate Power — Level 1	—	16.84 [.663]	5.61 [.221] Min.
			PostMate Power — Level 2	—	17.81 [.701]	4.34 [.171] Min.
MULTI-BEAM XL Right Angle Receptacle to Vertical Header	3.81 .150	13.21 .520	PreMate Signal — Level 2	—	18.26 [.719]	3.81 [.150] Min.
			PostMate Signal — Level 3	—	19.53 [.769]	2.54 [.100] Min.
			PreMate Power — Level 1	—	15.32 [.603]	5.61 [.221] Min.
			PostMate Power — Level 2	—	16.28 [.641]	4.34 [.171] Min.
			PreMate Signal — Level 2	—	16.74 [.659]	3.81 [.150] Min.
			PostMate Signal — Level 3	—	18.01 [.709]	2.54 [.100] Min.

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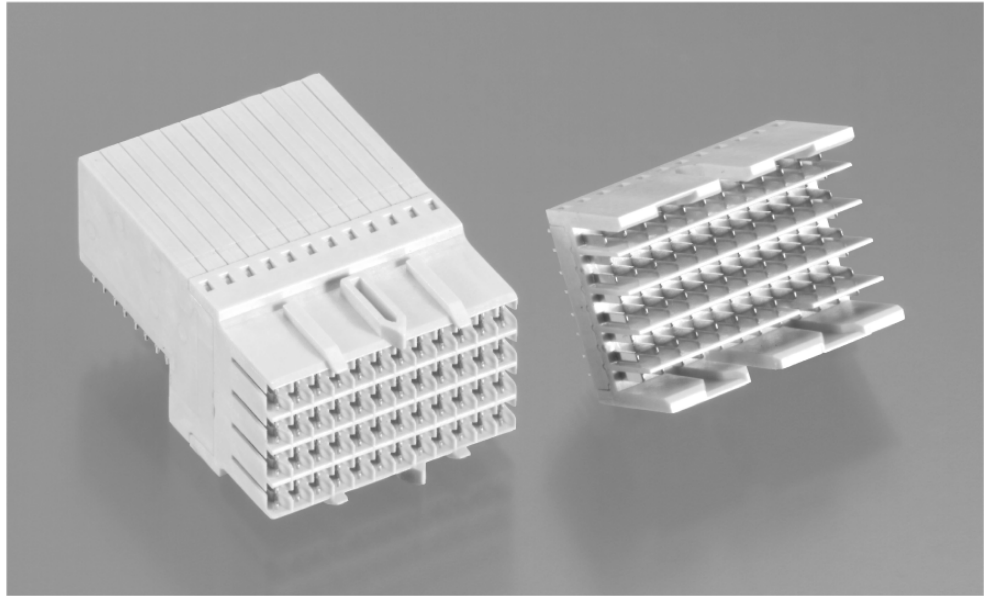
2

Z-PACK Slim UHD Connector

Z-PACK Slim UHD Connectors

Product Facts

- Density of 55 pins/cm²
- Fits +13 mm slot pitches
- 20+ Gbps scalable signal speed
- Complete end-to-end stackable
- Press-fit termination technology
- Different pin assignments possible
- Post/Premating possible
- Integrated polarization & guiding



Z-PACK Slim (low profile) UHD (Ultra High Density) is a flexible and upgradeable connector system designed to fit 15 mm (0.6 inch) slot pitch applications.

The Z-PACK Slim UHD connector has an extremely high contact density combined with excellent high speed signal performance.

For more Information:
<http://www.zpackuhd.com>

Applications

- Telecom Equipment
- Switches
- Routers
- Servers, etc.

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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