

Z-PACK HS3 Connector (Continued)

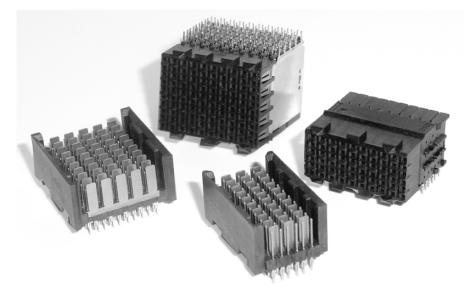
Product Line Overview

Product Facts

- High speed, high density two piece board-to-board backplane connector
- Dual beam provides redundant contact for improved reliability
- For data rates of 6.2+ Gb/s
- 10 row, 100 high speed lines per 25.00 [.984]
- 6 row, 60 high speed lines per 25.00 [.984]
- Controlled impedance: 50 ohm Single Ended 100 ohm Differential
- Feedthrough versions for midplane applications
- 250 mating cycles
- End stackable on 2.50 [.098] centerline, signal pin to signal pin
- Advanced ESD/Power (10 Amps) using optional guide pins and power contacts

Applications

- High Speed Telecommunications Equipment
- Mid-range and high-end services
- Recognized under the **Component Program** of Underwriters Laboratories Inc. (UL) File No. E28476



crosstalk. Compliant pins

card and backplane.

This connector family is

with other Z-PACK HM

family connectors on the

HS3 connectors support

same board edge. Z-PACK

data rates of 6.2+ Gb/s per

differential pair. The 6 row

20.32mm or 0.8 inch card

while the 10 row version is

version is optimized for

centerline applications,

press fit and is compatible

are used on both daughter-

The emergence of high speed serial backplanes has forced interconnections to be able to transfer data at gigabit speeds.

The Z-PACK HS3 connector system has been specifically designed to support this generation of high speed serial data transfer. Tyco Electronics has incorporated a controlled impedance microstrip path through the connector to minimize signal degradation and

Availability

Fully validated SPICE models: E-mail requests to modeling@tycoelectronics.com Samples: go to http://tycoelectronics.custhelp.com Pro/E models and IGES models: E-mail requests to TycoCAD@tycoelectronics.com White Papers: available on product website at http://hs3.tycoelectronics.com Electrical Performance Report: http://hs3.tycoelectronics.com 6 row EPR #138505; 10 row EPR #138506 Routing Guide: http://hs3.tycoelectronics.com Routing Guide #20GC017

Material and Finish

http://hs3.tycoelectronics.com

Technical Documents Product Specification 108-1957 **Application Specification** 114-13020

Qualification Test Report 501-501

min. over 1.3um Ni min. Compliant Pin Finish - 0.8µm SnPb min. over 1.3µm Ni min. Contact — Copper Alloy Housing — Glass filled polyester, 94V-0 rated

Contact Area Finish — 0.80µm Au

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926

Ratings

Current — 1.15A per fully energized Operating Voltage — 250 VAC max. Temperature — -65°C to 105°C Mating Force — 0.75N max. per contact (signal = 1 contact, ground = 1 contact)

Durability - 250 cycles

* Reference Product Spec. 108-1957 for complete list of performance data.

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

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Inc

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IGES is a trademark of IAMBA Networks.

PRO/E is a trademark of Parametric

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

C. America: 52-55-1106-0803

optimized for high density for 25.4mm or 1.0 inch card centerline applications.

The Tyco Electronics Universal Power Module (UPM) is designed to be compatible with the Z-PACK HS3 connector.

Static Discharge Guide/ Power Pins, Guide Pin/ Power Receptacles, Universal Guide Pin and Receptacles, and Coding Keys (10 row only) are also available.

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High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Performance Specifications Electrical Characteristics Characteristic Impedance — 100 ± 10% Ohms Nominal Resistance — 21 mOhm Crosstalk — See table at right Insertion Loss — See chart below

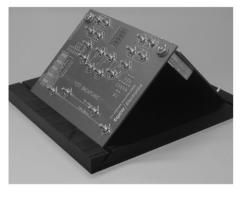
Edge rate 20-80%	HS3 10-Row Measured Noise							
Edge Tale 20-60 %	50 ps	100 ps	150 ps	250 ps				
BC Pair Total NEXT	2.3%	1.9%	1.7%	1.3%				
DE Pair Total NEXT	4.0%	3.3%	3.0%	2.4%				
FG Pair Total NEXT	4.0%	3.4%	3.1%	2.7%				
HJ Pair Total NEXT	2.3%	1.9%	1.7%	1.5%				

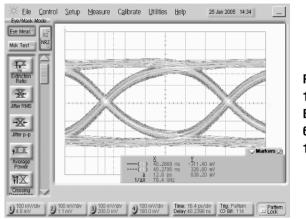
Synchronous Diff. NEXT (%)

Asynchronous Diff. NEXT (%)

Edge rate 20-80%	HS3 10-Row Measured Noise Totals							
Euge rate 20-60%	50 ps	100 ps	150 ps	250 ps				
BC Pair Total FEXT	0.5%	0.3%	0.3%	0.2%				
DE Pair Total FEXT	1.5%	0.8%	0.5%	0.5%				
FG Pair Total FEXT	1.4%	0.8%	0.7%	0.5%				
HJ Pair Total FEXT	1.0%	0.6%	0.4%	0.3%				

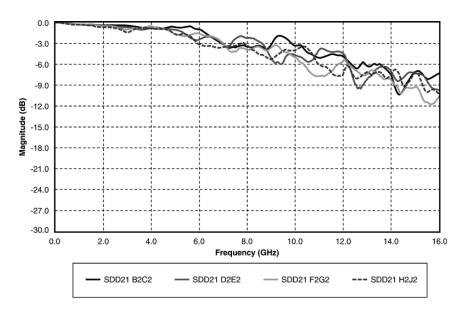
Edge rates specified are at the connector. Noise includes 1.60 [.063] footprints on both sides of the connector. Totals include contributions from 8 adjacent aggressor pairs.





PRBS 2'-1 data pattern 10 Gb/s data rate **BC Pair** 64% Eye Opening 12.6ps Jitter

Z-PACK HS3 Connector



Calibrated to include only the connector and the 1.60 [.063] footprints on both sides of the connector.

Note: All part numbers are RoHS compliant.

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High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Z-PACK HS3 Connector: Printed Circuit Design Rules for Backplane Routing

Using Standard Commercial Design Rules

This table lists routing specifications which meet design rules practiced by most printed circuit board vendors. This table should be used to route the Z-PACK HS3 connector for most applications and especially under one or more of these considerations:

- 1. Edge rates require the widest conductors possible.
- 2. Backplanes having layer counts above 16.
- 3. Backplanes which exceed 508mm (20") in length or width.
- 4. Cost is a major factor.

Using Advanced **Design Rules**

This table lists routing specifications which can be built by a limited number of leading edge printed circuit vendors using advanced design rules. This table can be used as a reference for Z-PACK HS3 connector in backplane applications where very high density is a major factor. The PCB vendor should be consulted regarding applicability of these rules to a specific design. Consideration should be given to the following:

1. Signal layer count reduction is possible with these design rules.

2. Backplanes which exceed 508mm (20") in length or width generally cannot be built with these rules.

Cost factors can potentially be higher.

Z-PACK HS3 Connector Routing Pattern

For more details request Report #20GC004-1 or visit http://www.tycoelectronics.com/ products/simulation/files/ papers/20GC004_1.pdf

Finished	Drilled	Pad Dia.	Annular	Pad-Pad Spacing	Conductor Ro	outing Options
Hole Dia.	Hole Dia.	Paù Dia.	Ring	63 mils (1.58mm) Č/C	5 mil spacing	6 mil spacing
24 mils	28 mils	44 mils	2 mils	19 mils	9 mils	7 mils
0.6mm	0.7mm	1.1mm	0.05mm	0.475mm	0.225mm	0.175mm
24 mils	28 mils	42 mils	1 mil	21 mils	11 mils	9 mils
0.6mm	0.7mm	1.05mm	0.025mm	0.525mm	0.275mm	0.225mm
24 mils	28 mils	40 mils	tangency	23 mils	13 mils	11 mils
0.6mm	0.7mm	1.0mm	tangency	0.575mm	0.325mm	0.275mm

Commercial Design Rules:

Minimum pad diameter for tangency: Drill Diameter (D)+12 mils (0.3mm) Hole location tolerance: +/- 3 mils (0.075mm) Pad/Pad artwork tolerance: +/- 2 mils (0.05mm) Feature tolerance (1 oz foil): +/- 0.075 mils (0.0175mm)

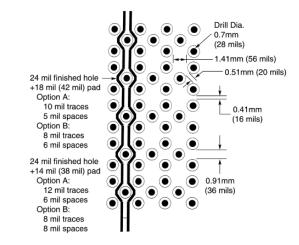
Finished	Drilled	Pad Dia.	Annular	Pad-Pad Spacing	Conductor Ro	outing Options
Hole Dia.	Hole Dia.	Paù Dia.	Ring	63 mil (1.58mm) Č/C	5 mil spacing	6 mil spacing
24 mils	28 mils	38 mils	tangency	25 mils	15 mils	13 mils
0.6mm	0.7mm	0.95mm	tangency	0.625mm	0.35mm	0.3mm
					Two Conductor	Routing
24 mils	28 mils	42 mils	2 mils	21 mils	4.5 mil lines/4 m	iil spacing
0.6mm	0.7mm	1.05mm	0.05mm	0.525mm	0.11mm lines/0.	09mm spacing
24 mils	28 mils	40 mils	1 mil	23 mils	5.5 mil lines/4 m	ill spacing
0.6mm	0.7mm	1.0mm	0.025mm	0.575mm	0.125mm lines/0).1mm spacing

Advanced Design Rules:

Minimum pad diameter for tangency: Drill Diameter (D)+10 mils (0.25mm)

Hole location tolerance: +/- 2 mils (0.05mm) Pad/Pad artwork tolerance: +/- 2 mils (0.05mm)

Feature tolerance (1 oz foil): +/- 0.075 mils (0.0175mm)



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High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Part Number Selection Chart **10 Row Z-PACK HS3 Connector**





Part Number 5120874 50 Position Right Receptacle Univ Pwr Guide Pin



Part Number 5120792 50 Position Right Receptacle ESD/HDI Guide Pin



זיהחיוויהוויהיו Part Number 5120790 100 Position Center Receptacle



Part Number 5120791 50 Position **Center Receptacle**



Part Number 5120793 50 Position Left Receptacle ESD/HDI Guide Pin



Part Number 5120875 50 Position Left Receptacle Univ Pwr Guide Pin





Part Number 5120670 50 Position Right Header Univ Pwr Guide Pin



Part Number 5120661 50 Position Right Header ESD/HDI Guide Pin



Part Number 5120658 100 Position Center Header



Part Number 5120747 50 Position Center Header



Part Number 5120662 50 Position Left Header ESD/HDI Guide Pin



Part Number 5120672 50 Position Left Header Univ Pwr Guide Pin



Part Number 5120748 50 Position Center Feed-Through

Part Number 5120665

50 Position

Right Feed-Through ESD/HDI Guide Pin

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Part Number 5120664

100 Position



Part Number 5120666 50 Position Left Feed-Through ESD/HDI Guide Pin



50 Position Right Shroud ESD/HDI Guide Pin



Part Number 5120663 100 Position Center Shroud



50 Position Center Shroud



50 Position Left Shroud ESD/HDI Guide Pin

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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Z-PACK HS3 Connector







Part Number 5120750





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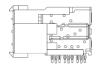




High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Part Number Selection Chart 6 Row Z-PACK HS3 Connector





Part Number 5120677

30 Position Right Header

Part Number 5120674

60 Position

Center Header

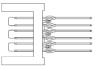
Part Number 5120732

30 Position

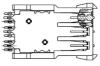
Center Header

Part Number 5120678

30 Position Left Header







Part Number 120949-1

60 Position Receptacle

with Guide Module

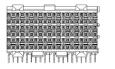
Part Number 120948-1

90 Position

Receptacle



Part Number 5120788 30 Position Right Receptacle



Part Number 5120786 60 Position Center Receptacle



Part Number 5120787 30 Position Center Receptacle



Part Number 5120789 30 Position Left Receptacle



Part Number 5120680 30 Position Right Header Feed-Through

Part Number 5120679

60 Position

Center Header Feed-Through

Part Number 5120742

30 Position

Center Header Feed-Through

Part Number 5120681

30 Position Left Header

Feed-Through





Part Number 5120683

30 Position Right Shroud

Part Number 5120682 60 Position Center Shroud



Part Number 5120743 30 Position Center Shroud



Part Number 5120684 30 Position Left Shroud

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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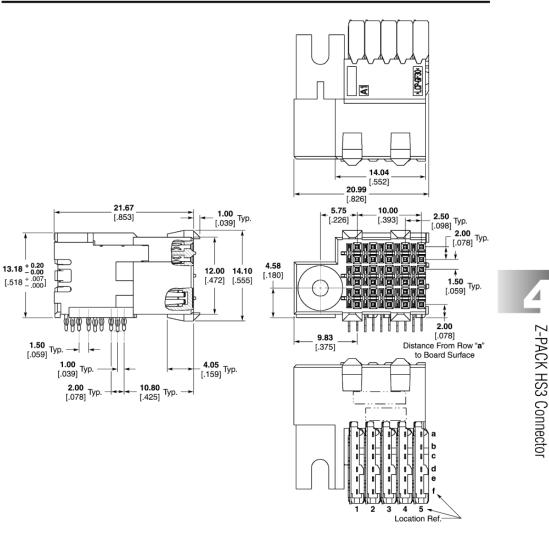




High Speed Backplane Connectors

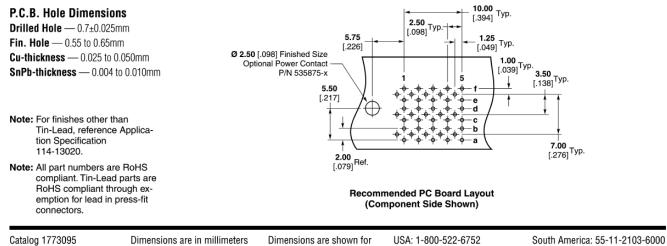






Pin Header Assemblies

Number of	Part	Application Tooling							
Positions	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet		
30	5120789-1	1338742-1	408-8394	1338744-1	408-8393	1338745-1	408-8410		



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and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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UK: 44-8706-080-208

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Right Angle Receptacle

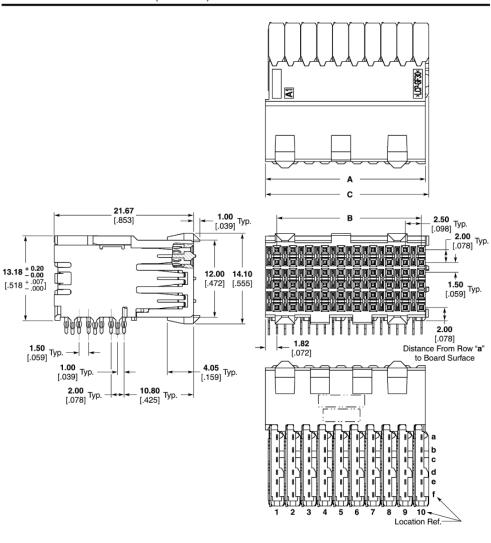
6 Row, Center Module

(Continued)

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High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)



Pin Header Assemblies

Number of	0	Dimension	s	Part			Applicat	ion Tooling		
Positions	Α	В	С	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet
60	24.88 .980	22.50 .886	25.40 1.00	5120786-1	1338742-2	408-8394	1338744-1	408-8393	1338745-1	408-8410
30	12.38 .487	10.00 .394	12.90 .508	5120787-1	1338742-1	408-8394	1338744-1	408-8393	1338745-1	408-8410

22.50 [.886]

Тур.

Recommended PC Board Layout (Component Side Shown)

2.50 [.098] Typ.:

1.25 [.049] Typ.

10

-e -d

b

1.00 [.039]^{Typ.}

ł

3.50 [.138]^{Typ.}

P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm

Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

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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2.00 [.079] Ref.

> USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

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

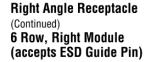
7.00 [.276] Typ.

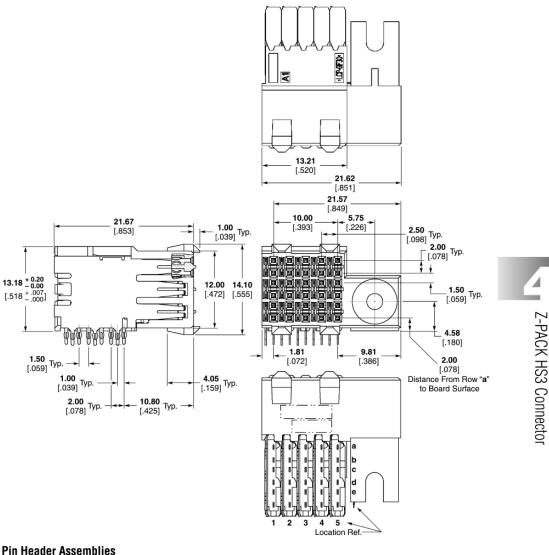


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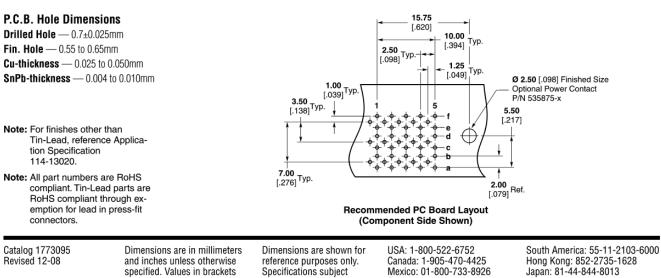
High Speed Backplane Connectors





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F 111	пеацег	ASSEIIIOI	185

	Number of	Part			Applicati	on Tooling		
_	Positions	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet
	30	5120788-1	1338742-1	408-8394	1338744-1	408-8393	1338745-1	408-8410



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and inches unless otherwise specified. Values in brackets are U.S. equivalents.

reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 103

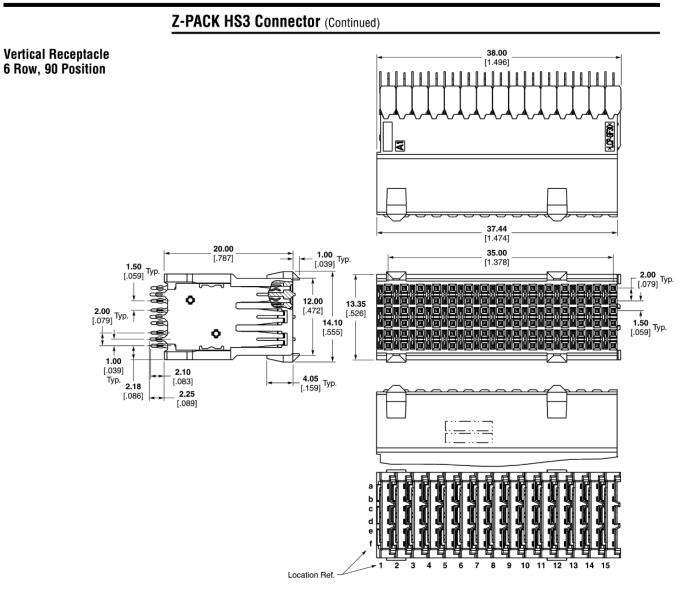
UK: 44-8706-080-208

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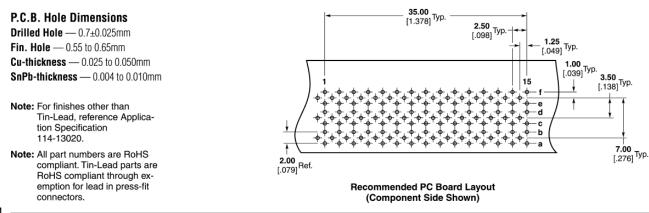
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High Speed Backplane Connectors



-	Number of	Part			Applicati	on Tooling		
_	Positions	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet
	90	120948-1	1725624-1	408-8870	—	—	—	—



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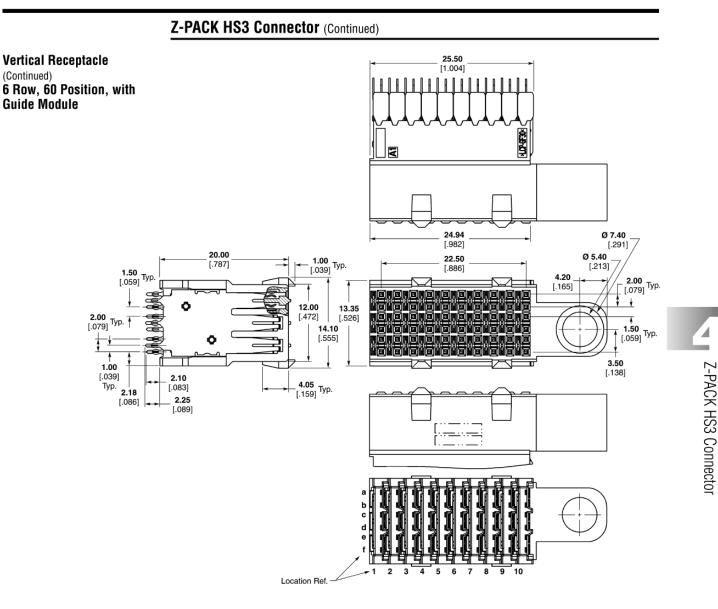
Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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High Speed Backplane Connectors



Numbe	r of	Part			Applicati	on Tooling		
Positio	ons	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet
60		120949-1	1725623-1	408-8870	—	—	—	—

22.50 [.886] P.C.B. Hole Dimensions Тур. 2.50 Drilled Hole — 0.7±0.025mm Тур [.098] **1.25** [.049] Typ. Fin. Hole — 0.55 to 0.65mm Cu-thickness - 0.025 to 0.050mm **1.00** [.039]^{Typ.} SnPb-thickness - 0.004 to 0.010mm **3.50** [.138]^{Typ.} 10 ţ Note: For finishes other than -e -d f Tin-Lead, reference Application Specification 114-13020. c b a 7.00 [.276] Typ. Note: All part numbers are RoHS 2.00 [.079] Ref. compliant. Tin-Lead parts are RoHS compliant through exemption for lead in press-fit connectors. Recommended PC Board Layout (Component Side Shown)

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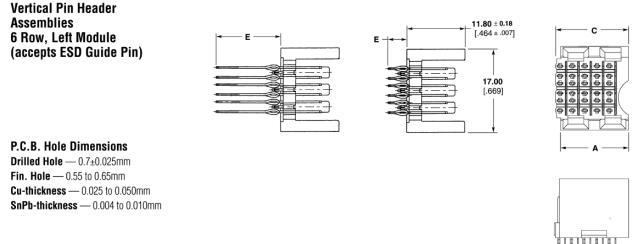
South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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High Speed Backplane Connectors

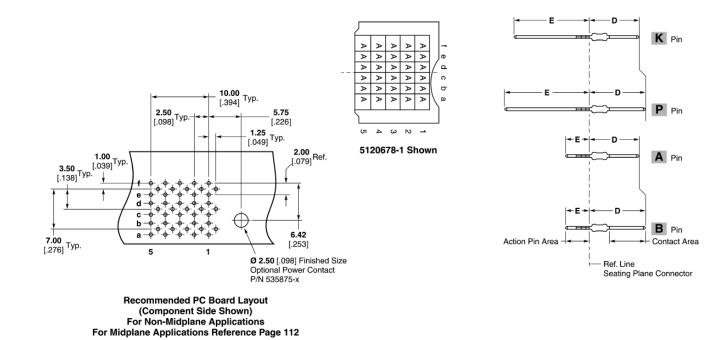
Z-PACK HS3 Connector (Continued)



Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

Pin Header Assemblies

		Di	mensio							Applicati	on Tooling		
Number of Positions	_					Pin Ref.	Part Numbers	0	10.01	Signa	al Pin	Ground	Blade
rositions	Α	в	С	D	Е	nen.	Numbers	Seating	IS Sheet	Repair Kit	IS Sheet	Repair Kit	IS Sheet
	13.70 .539	10.00 .393	14.80 .583	8.20 .322	3.70 .145	Α	5120678-1	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573
30	13.70 .539	10.00 .393	14.80 .583	9.70 .381	3.70 .145	В	5120678-2	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573
30	13.70 .539	10.00 .393	14.80 .583	8.20 .322	13.00 .511	К	5120681-1	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573
	13.70 .539	10.00 .393	14.80 .583	9.70 .381	14.50 .570	Ρ	5120681-2	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573



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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High Speed Backplane Connectors

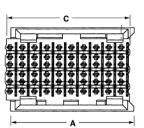
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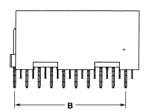


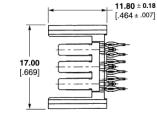
P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

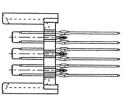
Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

Pin Header Assemblies

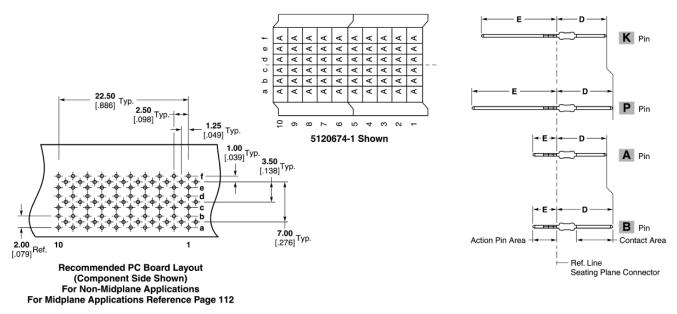


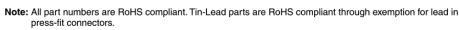






Number of		Di	mensio	ns		Pin	Port			Applicati	on Tooling		
Number of Positions	A	В	C	D	E	Ref.	Part Numbers	Conting	IC Cheet	Signal Pin		Ground Blade	
1 03110113	A	Б	C	U	E	nei.	Numbers	Seating	eating IS Sheet	Repair Kit	IS Sheet	Repair Kit	IS Sheet
	24.90 .980	22.50 .885	24.90 .980	8.20 .322	3.70 .145	Α	5120674-1	91313-2	408-4546	354687-2	408-9979	1320534-1	408-4573
60	24.90 .980	22.50 .885	24.90 .980	9.70 .381	3.70 .145	В	5120674-2	91313-2	408-4546	354687-2	408-9979	1320534-1	408-4573
80	24.90 .980	22.50 .885	24.90 .980	8.20 .322	13.00 .511	Κ	5120679-1	91313-2	408-4546	354687-2	408-9979	1320534-1	408-4573
	24.90 .980	22.50 .885	24.90 .980	9.70 .381	14.50 .570	Ρ	5120679-2	91313-2	408-4546	354687-2	408-9979	1320534-1	408-4573
	12.41 .488	10.00 .393	12.40 .488	8.20 .322	3.70 .145	Α	5120732-1	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573
30	12.41 .488	10.00 .393	12.40 .488	9.70 .381	3.70 .145	В	5120732-2	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573
30	12.41 .488	10.00 .393	12.40 .488	8.20 .322	13.00 .511	К	5120742-1	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573
	12.41 .488	10.00 .393	12.40 .488	9.70 .381	14.50 .570	Ρ	5120742-2	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573





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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 107

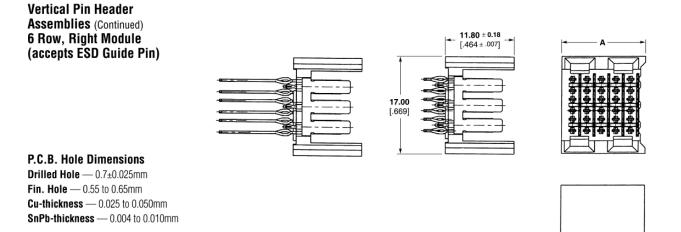
South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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Z-PACK HS3 Connector

High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)



Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

Pin Header Assemblies

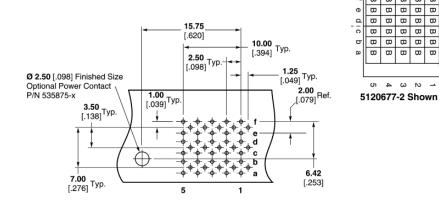
N		Dimen	elone		D .	D est	Application Tooling						
Number of Positions	-			F	Pin Ref.	Part Numbers	Seating	IS Sheet	Signa	l Pin	Ground Blade		
rositions	Α	В	D	-	nen.	Numbero	Seating	15 Sheet	Repair Kit	IS Sheet	Repair Kit	IS Sheet	
	14.45 .568	10.00 .393	8.20 .322	3.70 .145	Α	5120677-1	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573	
30	14.45 .568	10.00 .393	9.70 .381	3.70 .145	В	5120677-2	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573	
30	14.45 .568	10.00 .393	8.20 .322	13.00 .511	К	5120680-1	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573	
	14.45 .568	10.00 .393	9.70 .381	14.50 .570	Ρ	5120680-2	91313-1	408-4546	354687-2	408-9979	1320534-1	408-4573	

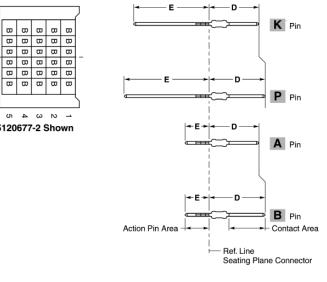
ω 00 00

<u>__</u>___

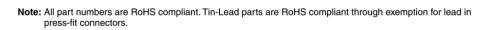
Β

Φ Β ω ω





Recommended PC Board Layout (Component Side Shown) For Non-Midplane Applications For Midplane Applications Reference Page 112



108

Catalog 1773095 Revised 12-08 www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

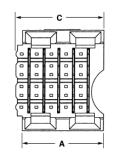


Z-PACK HS3 Connector (Continued)

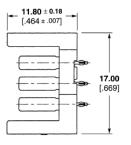
Vertical Pin Header



Κ



в



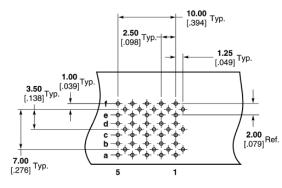
P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

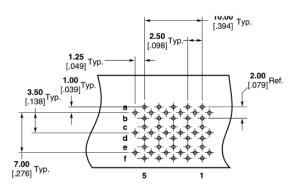
Pin Header Assemblies

	D	imensio		- .	Application Tooling					
Number of Positions		niensio	15	Part Number	Incontion	IC Chast	Ground	Blade		
Fositions	A	в	C	Number	Insertion	IS Sheet	Repair Kit	IS Sheet		
30	13.70 .537	10.00 .393	14.80 .582	5120684-1	91313-1	408-4546	1320534-1	408-4573		





Non-Coplanar Daughtercards (Pin 1a Header = Pin 1f Shroud Side) Recommended PC Board Layout — Reference Page 112 (Shroud Side Shown)



Coplanar Daughtercards (Pin 1a Header = Pin 5a Shroud Side) Recommended PC Board Layout — Reference Page 112 (Shroud Side Shown)

UK: 44-8706-080-208

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

Catalog 1773095 Revised 12-08 www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 109 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

Z-PACK HS3 Connector (Continued)

С

Vertical Pin Header Shrouds (Continued) 6 Row, Center Module

₹ Tyco Electronics

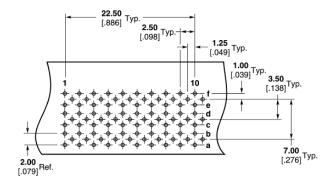
Κ

P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

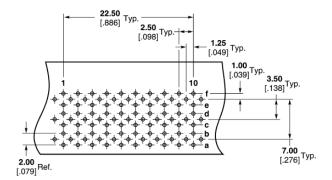
Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

Pin Header Assemblies

	D	imensio			Application Tooling					
Number of Positions			C	Part Number	Insertion	IS Sheet	Ground Blade			
FUSICIONS	A	В	C	Number	Insertion	15 Sheet	Repair Kit	IS Sheet		
60	24.90 .980	22.50 .885	24.90 .980	5120682-1	91313-2	408-4546	1320534-1	408-4573		
30	12.57 .494	10.00 .393	12.40 .488	5120743-1	91313-1	408-4546	1320534-1	408-4573		



Non-Coplanar Daughtercards (Pin 1a Header = Pin 1f Shroud Side) Recommended PC Board Layout — Reference Page 112 (Shroud Side Shown)



 $\begin{array}{l} \textbf{11.80} \pm \textbf{0.18} \\ [.464 \pm .007] \end{array}$

17.00 [.669]

Coplanar Daughtercards (Pin 1a Header = Pin 5a Shroud Side) Recommended PC Board Layout — Reference Page 112 (Shroud Side Shown)

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

110

Black ID: Larrv: Catalog 1773095 Revised 12-08 www.tycoelectronics.com

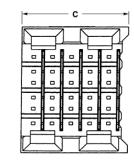
Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

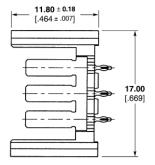


Z-PACK HS3 Connector (Continued)

Vertical Pin Header Shrouds (Continued) 6 Row, Right Module

Κ



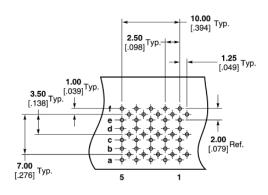


P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

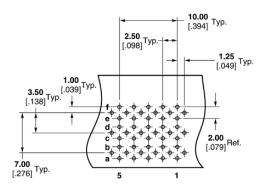
Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

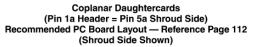
Pin	Header	Accor	nhli	90
PIII	пеацег	ASSEI	וועוו	es.

)imensio		. .	Application Tooling					
Number of Positions		-	Part Number	Incertion	IS Sheet	Ground Blade				
rositions	A	в	C	Number	Insertion	15 Sheet	Repair Kit	IS Sheet		
30		10.00 .393	14.20 .559	5120683-1	91313-1	408-4546	1320534-1	408-4573		



Non-Coplanar Daughtercards (Pin 1a Header = Pin 1f Shroud Side) Recommended PC Board Layout — Reference Page 112 (Shroud Side Shown)





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

Catalog 1773095 Revised 12-08

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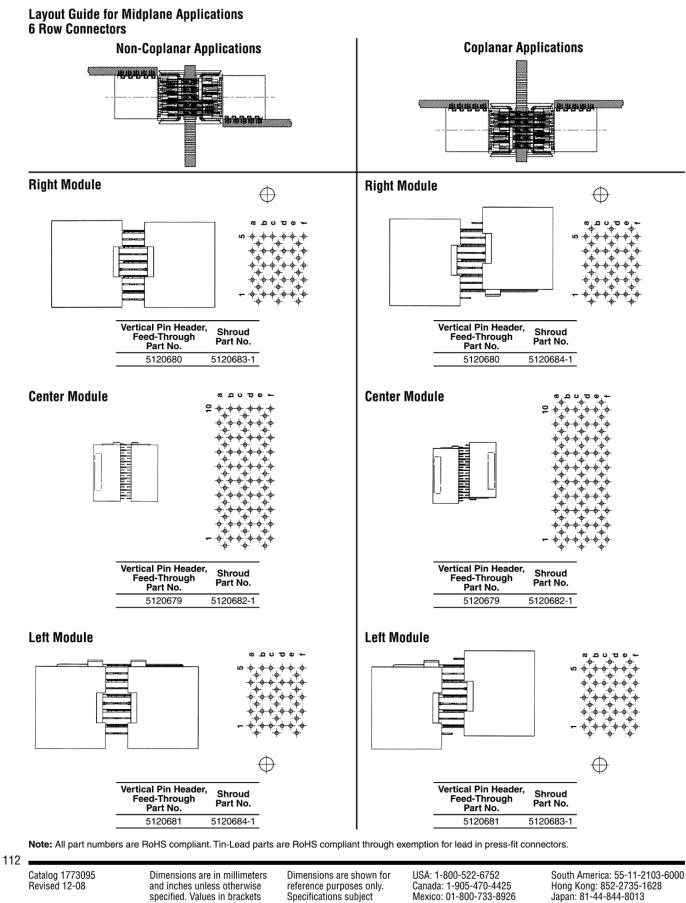
www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 111 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 Z-PACK HS3 Connector



High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)



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and inches unless otherwise specified. Values in brackets are U.S. equivalents.

reference purposes only. Specifications subject to change.

C. America: 52-55-1106-0803

UK: 44-8706-080-208

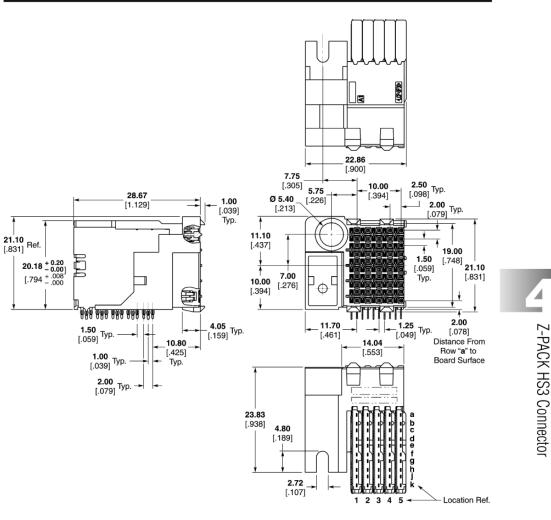
Κ

High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Right Angle Receptacle

10 Row, Left Module (accepts Universal Guide Pin)

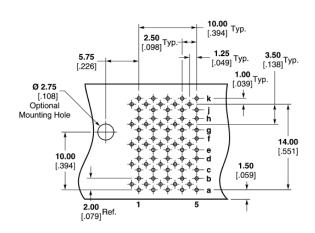


Receptacle Assemblies

Number of	Part		Application Tooling									
Positions	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet					
50	5120875-1	1338743-1	408-8394	1338744-1	408-8393	1338746-1	408-8410					

P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness - 0.004 to 0.010mm

Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.



Recommended PC Board Layout (Component Side Shown)

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

Catalog 1773095 Revised 12-08

and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are U.S. equivalents.

Dimensions are in millimeters Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208

113

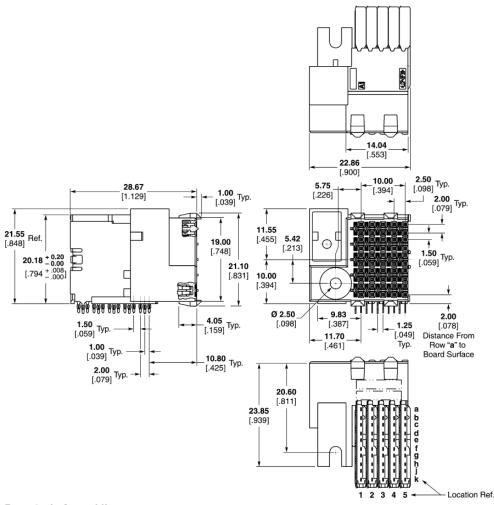
Κ

High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Right Angle Receptacle (Continued)

10 Row, Left Module (accepts ESD Guide Pin)

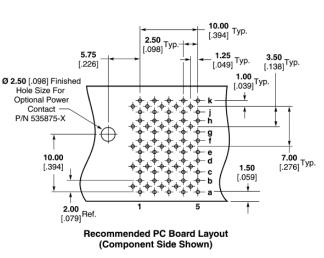


Receptacle Assemblies

Number of	Part		Application Tooling									
Positions	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet					
50	5120793-1	1338743-1	408-8394	1338744-1	408-8393	1338746-1	408-8410					

P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.



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

114

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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

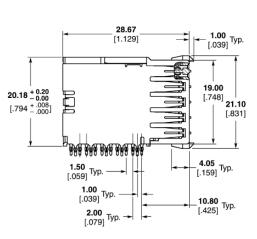
Κ

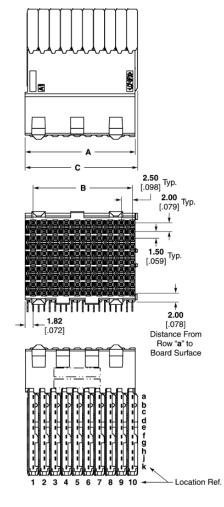
High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Right Angle Receptacle (Continued)

10 Row, Center Module





Receptacle Assemblies

Number of	0	imension	s	Part		Application Tooling							
Positions	Α	В	С	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet			
100	24.94 .982	22.50 .886	25.48 1.03	5120790-1	1338743-2	408-8394	1338744-1	408-8393	1338746-1	408-8410			
50	12.44 .490	10.00 .394	12.90 .508	5120791-1	1338743-1	408-8394	1338744-1	408-8393	1338746-1	408-8410			

22.50 [.886] Typ. P.C.B. Hole Dimensions **2.50** [.098] Typ Drilled Hole - 0.7±0.025mm - **1.25** [.049] Typ. Fin. Hole — 0.55 to 0.65mm 1.00 Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm **3.50** [.138]^{Typ} g **14.00** [.551]^{Typ.} Note: For finishes other than Tin-Lead, reference d Application Specification С b 114-13020. - a $\textbf{0.60} \pm \textbf{0.05}$ 10 -[.024 ± .002] Plated Through Holes Location Ref. Тур.

Recommended PC Board Layout (Component Side Shown)

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

Catalog 1773095 Revised 12-08

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

115 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208

Z-PACK HS3 Connector

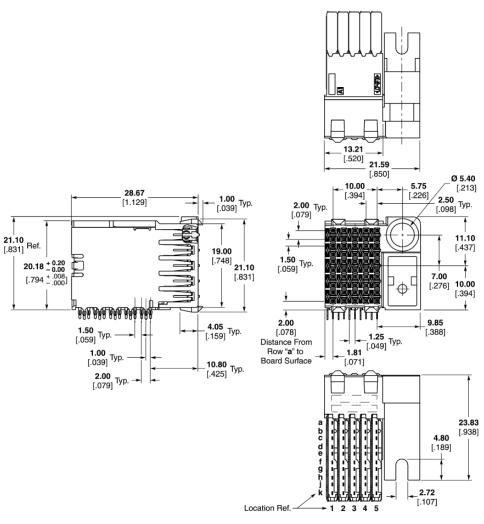
Κ

High Speed Backplane Connectors





10 Row, Right Module (accepts Universal Guide Pin)



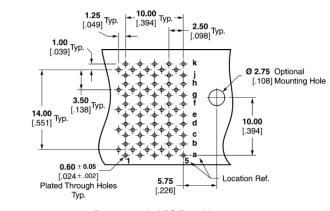
Receptacle Assemblies

Number of	Part			Applicati	ion Tooling		
Positions	Number	Insertion	IS Sheet	Hsg Removal	IS Sheet	Chiclet Removal	IS Sheet
50	5120874-1	1338743-1	408-8394	1338744-1	408-8393	1338746-1	408-8410

P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm

Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.



Recommended PC Board Layout (Component Side Shown)

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

116

Black ID: Larrv:

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Catalog 1773095 Revised 12-08 www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

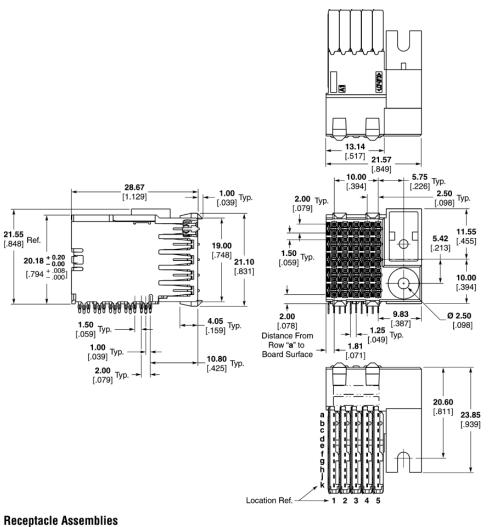
Κ

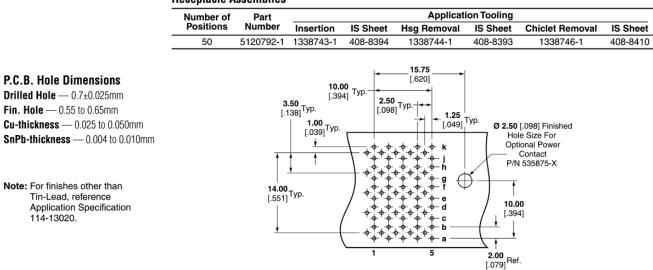
High Speed Backplane Connectors





10 Row, Right Module (accepts ESD Guide Pin)





(Component Side Shown) Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through exemption for lead in

Recommended PC Board Layout

press-fit connectors.

Catalog 1773095 Revised 12-08

P.C.B. Hole Dimensions

Drilled Hole - 0.7±0.025mm

Fin. Hole — 0.55 to 0.65mm

Note: For finishes other than

114-13020.

Tin-Lead, reference

Application Specification

and inches unless otherwise specified. Values in brackets www.tycoelectronics.com are U.S. equivalents.

Dimensions are in millimeters

Dimensions are shown for reference purposes only. Specifications subject to change.

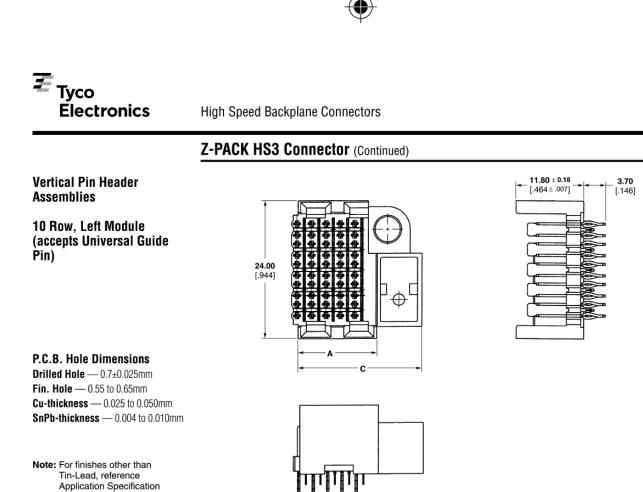
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

117 South America: 55-11-2103-6000

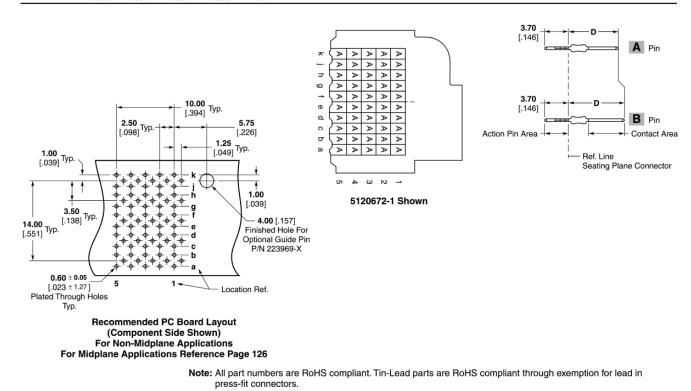
Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208

Z-PACK HS3 Connector



Newskawad		Dimo	nsions			D -ut			Applicatio	on Tooling		
Number of Positions	-				Pin Ref.	Part Numbers	Casting	IC Chast	Signa	l Pin	Ground	Blade
Fositions	A	В	С	U	nen	Numbers	Seating	IS Sheet	Repair Kit	IS Sheet	Repair Kit	IS Sheet
50	13.70 .539	10.00 .394	21.61 .851	8.20 .323	Α	5120672-1	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573
50	13.70 .539	10.00 .394	21.61 .851	9.70 .383	В	5120672-2	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573



Black ID: Larrv:

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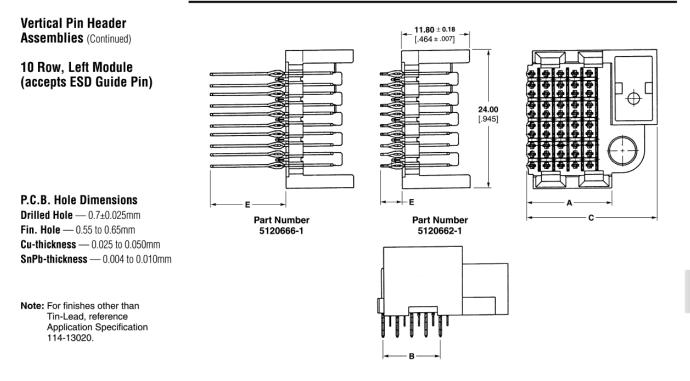
Catalog 1773095 Revised 12-08 www.tycoelectronics.com

114-13020.

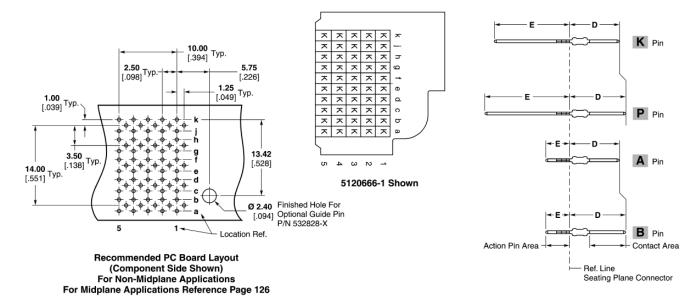
Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)



		D:	mensio					Application Tooling						
Number of Positions	_					Pin Ref.	Part Numbers	Casting	IS Sheet	Signal Pin		Ground Blade		
Positions	Α	в	С	D	Е	nei.	Numbers	Seating	15 Sheet	Repair Kit	IS Sheet	Repair Kit	IS Sheet	
	14.80 .583	10.00 .394	22.71 .894	8.20 .323	3.70 .146	Α	5120662-1	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573	
50	14.80 .583	10.00 .394	22.71 .894	9.70 .382	3.70 .146	В	5120662-2	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573	
50	14.80 .583	10.00 .394	22.71 .894	8.20 .323	13.00 .512	К	5120666-1	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573	
	14.80 .583	10.00 .394	22.71 .894	9.70 .382	14.50 .571	Ρ	5120666-2	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573	



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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UK: 44-8706-080-208

Z-PACK HS3 Connector

High Speed Backplane Connectors

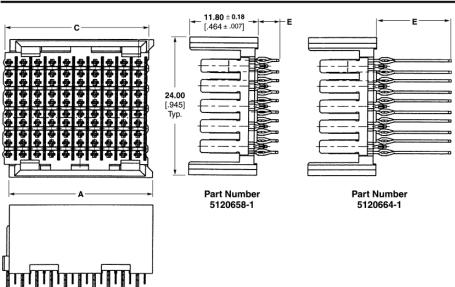
Z-PACK HS3 Connector (Continued)



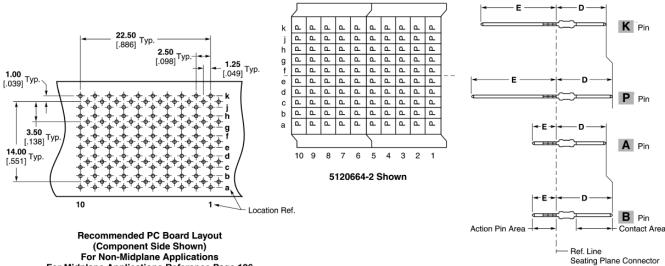
10 Row, Center Module

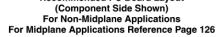
P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness - 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.



Number of		Di	mensio	ns		Pin	Part	Application Tooling						
Positions	A	В	C	D	E	Ref.	Numbers	Seating	IS Sheet	Signa	al Pin	Ground	Blade	
r contonio	~	Б	C	D	-	nen.	Humbero	Seating	15 Sheet	Repair Kit	IS Sheet	Repair Kit	IS Sheet	
	24.90 .980	22.50 .885	24.90 .980	8.20 .322	3.70 .145	Α	5120658-1	91312-2	408-4546	354687-2	408-9979	1320534-2	408-4573	
100	24.90 .980	22.50 .885	24.90 .980	9.70 .381	3.70 .145	В	5120658-2	91312-2	408-4546	354687-2	408-9979	1320534-2	408-4573	
100	24.90 .980	22.50 .885	24.90 .980	8.20 .322	13.00 .511	К	5120664-1	91312-2	408-4546	354687-2	408-9979	1320534-2	408-4573	
	24.90 .980	22.50 .885	24.90 .980	9.70 .381	14.50 .570	Ρ	5120664-2	91312-2	408-4546	354687-2	408-9979	1320534-2	408-4573	
	12.41 .488	10.00 .393	12.40 .488	8.20 .322	3.70 .145	Α	5120747-1	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573	
50	12.41 .488	10.00 .393	12.40 .488	9.70 .381	3.70 .145	В	5120747-2	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573	
50	12.41 .488	10.00 .393	12.40 .488	8.20 .322	13.00 .511	К	5120748-1	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573	
	12.41 .488	10.00 .393	12.40 .488	9.70 .381	14.50 .570	Ρ	5120748-2	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573	





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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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

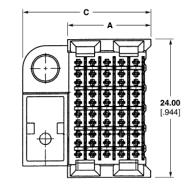
Vertical Pin Header Assemblies (Continued)

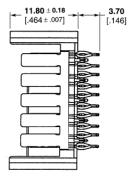
Κ

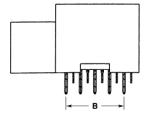
10 Row, Right Module (accepts Universal Guide Pin)

P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

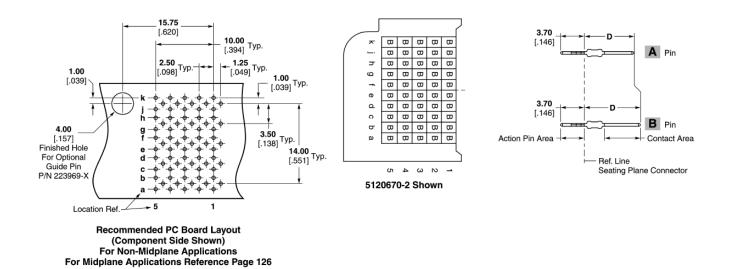
Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.







		Dimo	ncione						Applicati	on Tooling		
Number of Positions			Pin Part Ref. Numbers	Part Numbers	O a attine a	IS Sheet	Signal Pin		Ground Blade			
1 Usitions	А	В	C	D	nei.	Hel. Nullibers 5	Seating	15 Sheet	Repair Kit	IS Sheet	Repair Kit	IS Sheet
50	14.45 .568	10.00 .393	22.28 .877	8.20 .322	Α	5120670-1	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573
50	14.45 .568	10.00 .393	22.28 .877	9.70 .381	В	5120670-2	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573



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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Black ID: Larrv:

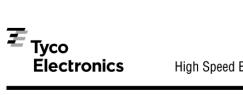
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UK: 44-8706-080-208

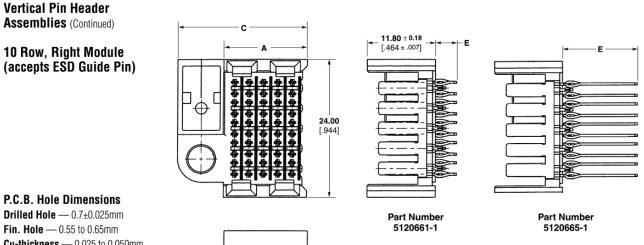
121

Z-PACK HS3 Connector



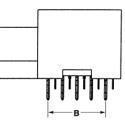
High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

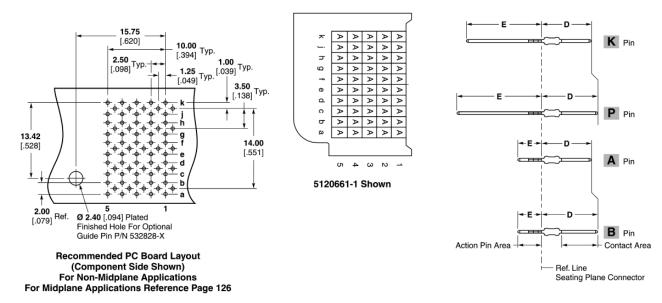


Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness - 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.



		Dimensions				- .	Application Tooling						
Number of Positions					Pin Part [·] Ref. Numbers	O		Signal Pin		Ground	Ground Blade		
	A	в	C	D	E	nei.	Numbers	Seating	eating IS Sheet	Repair Kit	IS Sheet	Repair Kit	IS Sheet
	14.46 .569	10.00 .393	22.28 .877	8.20 .322	3.70 .145	Α	5120661-1	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573
50	14.46 .569	10.00 .393	22.28 .877	9.70 .381	3.70 .145	В	5120661-2	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573
50	14.46 .569	10.00 .393	22.28 .877	8.20 .322	13.00 .511	К	5120665-1	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573
	14.46 .569	10.00 .393	22.28 .877	9.70 .381	14.50 .570	Ρ	5120665-2	91312-1	408-4546	354687-2	408-9979	1320534-2	408-4573



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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Black ID: Larrv:

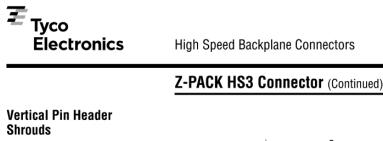
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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



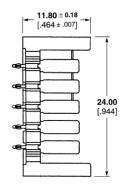
10 Row, Left Module

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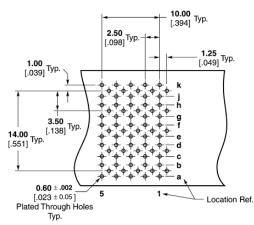


P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness - 0.025 to 0.050mm SnPb-thickness - 0.004 to 0.010mm

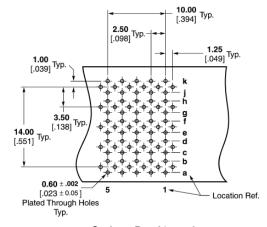
Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

Receptacle	Assemblies
------------	------------

Number of Positions	D	Imanala				Applicat	ion Tooling	
	Dimensions			Part Number		10.01	Ground Blade	
	A	в	C	Number	Seating	IS Sheet	Repair Kit	IS Sheet
50	13.70 .539	10.00 .877	22.80 .322	5120668-1	91312-1	408-4546	1320534-2	408-4573







Coplanar Daughtercards (Pin 1a Header = Pin 5a Shroud Side) Recommended PC Board Layout — Reference Page 126 (Shroud 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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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

123 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208

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Z-PACK HS3 Connector (Continued)

Vertical Pin Header Shrouds (Continued)

₹ Tyco Electronics

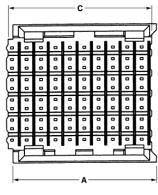
Κ

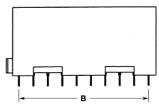
10 Row, Center Module

P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm

SnPb-thickness — 0.004 to 0.010mm

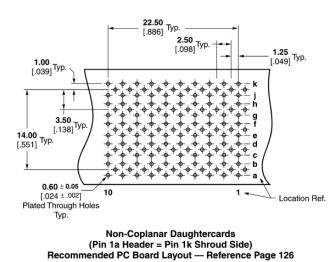
Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.

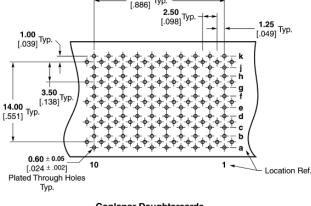




24.00 [.944]

	Dimensions				Application Tooling				
Number of Positions				Part Number	Part Outline		Ground Blade		
	A	A B	С	Number	Seating	IS Sheet	Repair Kit	IS Sheet	
100	24.90 .980	22.50 .886	24.90 .980	5120663-1	91312-2	408-4546	1320534-2	408-4573	
50	12.41 .488	10.00 .394	12.40 .488	5120750-1	91312-1	408-4546	1320534-2	408-4573	





22.50 [.886] Typ.



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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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents.

(Shroud Side Shown)

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Tyco Electronics High Spee

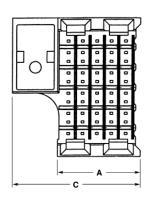
High Speed Backplane Connectors

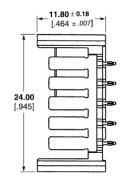
Z-PACK HS3 Connector (Continued)

Vertical Pin Header Shrouds (Continued)

Κ

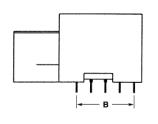
10 Row, Right Module





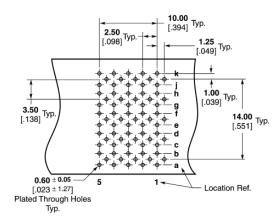
P.C.B. Hole Dimensions Drilled Hole — 0.7±0.025mm Fin. Hole — 0.55 to 0.65mm Cu-thickness — 0.025 to 0.050mm SnPb-thickness — 0.004 to 0.010mm

Note: For finishes other than Tin-Lead, reference Application Specification 114-13020.



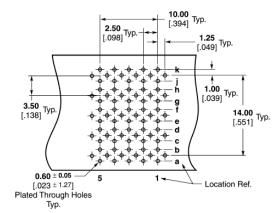
Receptacle Assemblies

						Applicat	ion Tooling		
Number of Positions	Dimensions			Part Number	Conting	IS Sheet	Ground Blade		
rositions	A	АВС	C	Number	Seating	15 Sheet	Repair Kit	IS Sheet	
50	14.46 .569	10.00 .394	22.28 .877	5120667-1	91312-1	408-4546	1320534-2	408-4573	



Non-Coplanar Daughtercards (Pin 1a Header = Pin 1k Shroud Side) Recommended PC Board Layout — Reference Page 126

(Shroud Side Shown)



Coplanar Daughtercards (Pin 1a Header = Pin 5a Shroud Side) Recommended PC Board Layout — Reference Page 126 (Shroud Side Shown)

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

Catalog 1773095 Revised 12-08 www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 125

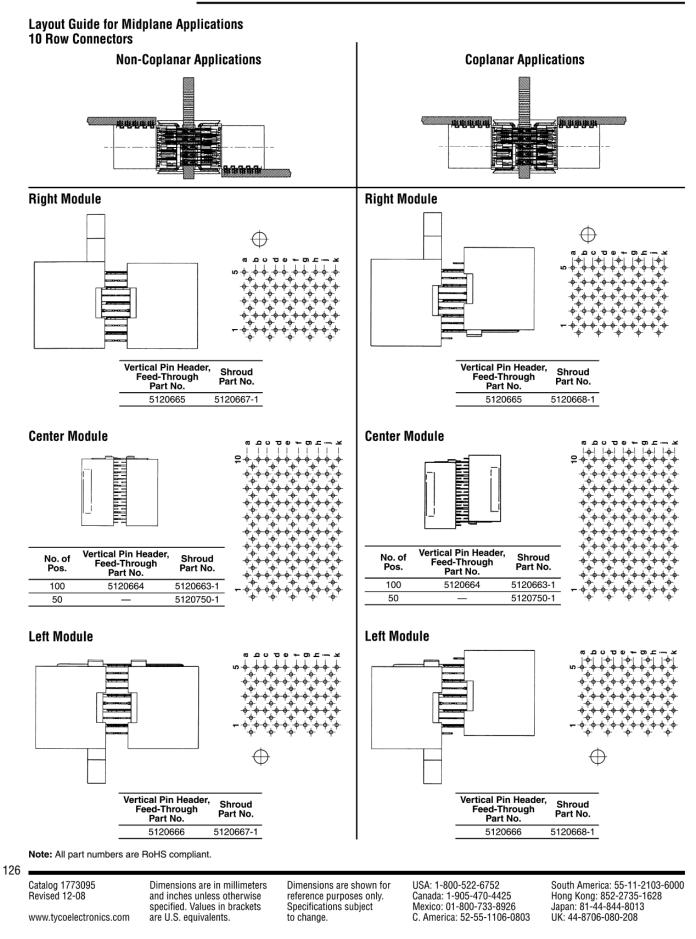
Z-PACK HS3 Connector



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High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)



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K

High Speed Backplane Connectors

Coding Keys (10 Row Only)

Compatibility — Z-PACK HS3, Z-PACK 12 row connectors Part Number 120639-3 (white) Part Number 120639-6 (red)

Material & Finish — Valox

Power and Guide Hardware Universal Power Module Vertical Receptacle (3 Pos.)

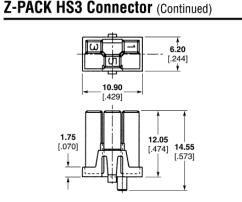
The Tyco Electronics Universal Power Module is a multi-position, modular, hard metric board-to-board power connector designed to be compatible with Z-PACK 2mm HM connectors. The design is in an "inverse-sex" orientation and the vertical receptacle module meets the IEC 950 safety requirements for finger probe protection.

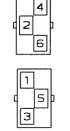
Both the headers and receptacle utilize Tyco Electronics ACTION PIN press-fit leads for ease of assembly onto printed circuit boards. Additionally, the vertical receptacle leads are polarized to allow only one orientation onto the printed circuit board, eliminating the possibility of reverse placement.

The Universal Power Module is compatible with a wide variety of other Tyco Electronics board-toboard connectors including Z-PACK HS3, Z-PACK HM-Zd and Z-PACK TinMan connectors.

The right angle header contacts are available with sequenced lengths for "make-first/break-last" applications.

Generous alignment features designed into the housings and optional guide pins and receptacles make the Tyco Electronics Universal Power Module ideal for "blind mating" applications.

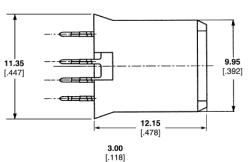


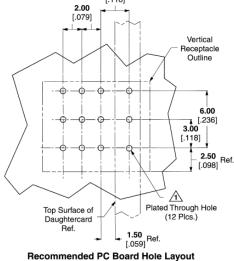


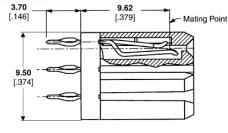
Part Number 120639-6

Part Number 120639-3









Z-PACK HS3 Connector

	Position Loaded	Part Numbers
Vertical	ABC	5223955-2
Receptacle	AC	5223984-1
High Current	ABC	5-5223955-2

Image: Weight of the state of the

Note: For finishes other than Tin-Lead, reference Application Specification 114-1103.

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

Catalog 1773095 Revised 12-08

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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 127

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High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Power and Guide Hardware (Continued)

Expanded Universal Power Module Vertical Receptacles

Material and Finish

Housing — Polyester, gray Contact — Copper alloy, plated 0.00127 [.000050] min. gold in mating area, 0.00050 [.000020] min. Tin-Lead on ACTION PIN product area, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data

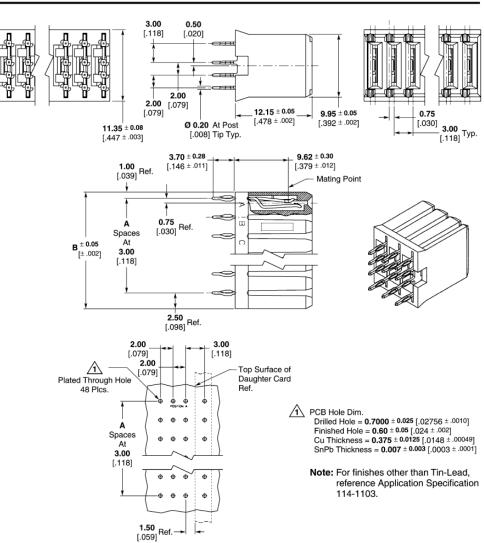
Guiding Hardware (Optional) — pages 132 and 133

Application Tooling

Header Seating Tool, 224441-1 Board Support Fixture, 224442-1 **Receptacle** Seating Tool, 224421-1 Board Support Fixture, 217602-1

Technical Documents Product Specification 108-1651 Application Specification 114-1103 Tyco Electronics Instruction Sheet

408-4169 (Receptacle Seating Tool 224421-1)



Recommended PCB Hole Layout

Position	Α	B Ref.	Standard *10A Part Number	High Current *15A Part Number
4	3	12.50 .492	5223995-1	120953-1
5	4	15.50 .610	5223995-2	120953-2
6	5	18.50 .728	5223995-3	120953-3
7	6	21.50 .846	5223995-4	120953-4
8	7	24.50 .965	5223995-5	120953-5

*Reference Product Specification 108-1651.

Note: For additional Power Module options reference Catalog 1773096, "Power Connectors and Interconnection Systems," or contact your Tyco Electronics Sales

Representative.

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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High Speed Backplane Connectors

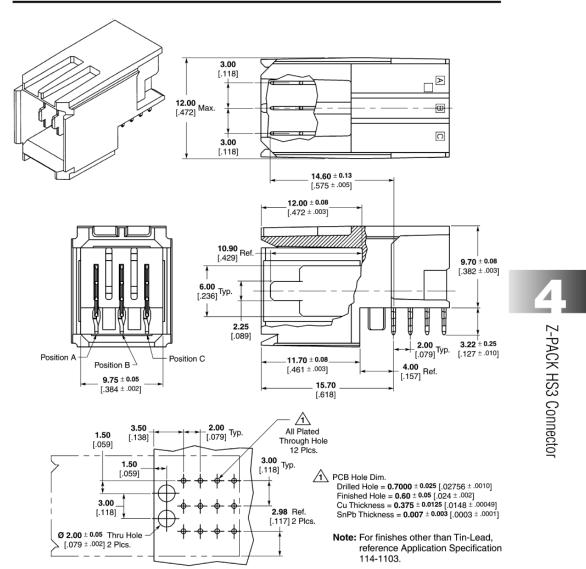
Z-PACK HS3 Connector (Continued)

Power and Guide Hardware (Continued)

Universal Power Module Right Angle Headers (3 Pos.)

Material and Finish

Housing — polyester, natural color Contacts — Copper alloy, plated 0.00127 [.000050] min. gold in mating area, 0.00050 [.000020] min. Tin-Lead on ACTION PIN post area, with entire contact underplated 0.00127 [.000050] min. nickel



Recommended PC Board Hole Layout

Bla	de Length Dimens	ions	Standard *10A	High Current *15A
Position A	Position B	Position C	Right Angle Header Part Numbers	Right Angle Heade Part Numbers
10.90 [.429]	10.90 [.429]	10.90 [.429]	5223961-1	5-5223961-1
10.90 [.429]	9.30 [.366]	10.90 [.429]	5223962-1	_
10.90 [.429]	9.30 [.366]	9.30 [.366]	5223968-1	_
10.90 [.429]	7.68 [.302]	10.90 [.429]	5223972-1	—
10.90 [.429]	7.68 [.302]	9.30 [.366]	5223971-1	_
10.90 [.429]	7.68 [.302]	7.68 [.302]	5223970-1	_
9.30 [.429]	10.90 [.429]	9.30 [.366]	5223963-1	_
9.30 [.366]	10.90 [.429]	7.68 [.302]	5223964-1	_
9.30 [.366]	9.30 [.366]	9.30 [.366]	5223967-1	_
9.30 [.366]	_	9.30 [.366]	5223975-1	_
9.30 [.366]	9.30 [.366]	7.68 [.302]	5223981-1	_
9.30 [.366]	7.68 [.302]	9.30 [.366]	5223965-1	—
7.68 [.302]	9.30 [.366]	7.68 [.302]	5223983-1	_
7.68 [.302]	7.68 [.302]	9.30 [.366]	5223980-1	—
7.68 [.302]	7.68 [.302]	7.68 [.302]	5223974-1	5-5223974-1

*Reference Product Specification 108-1651.

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Note: For additional Power Module options reference Catalog 1773096, "Power Connectors and Interconnection Systems," or contact your Tyco Electronics Sales Representative.

Note: All part numbers are RoHS compliant. Tin-Lead parts are RoHS compliant through

exemption for lead in press-fit connectors.

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are U.S. equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 129

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Z-PACK HS3 Connector (Continued)

Power and Guide Hardware

(Continued)

Κ

Expanded Universal Power Module Right Angle Headers

Material and Finish

Housing — Polyester, gray Contacts — Phosphor bronze, plated 0.00127 [.000050] min. gold in mating area, 0.00054 [.000021] min. Tin-Lead on ACTION PIN product area, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data Guiding Hardware (Optional) —

pages 132 and 133

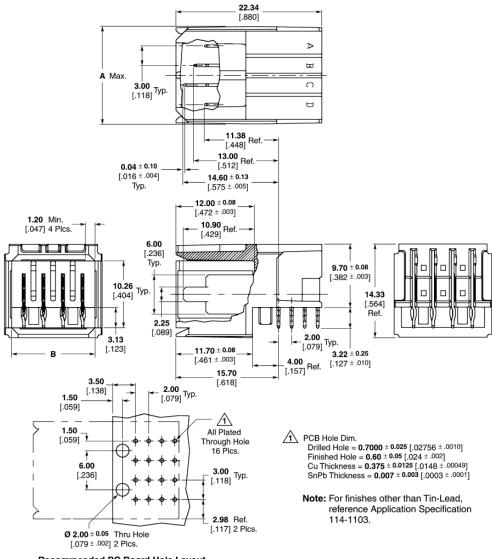
Application Tooling

Header Seating Tool, 224441-1 Board Support Fixture, 224442-1 **Receptacle** Seating Tool, 224421-1 Board Support Fixture, 217602-1

Technical Documents Product Specification 108-1651

Application Specification 114-1103

Tyco Electronics Instruction Sheet 408-4169 (Receptacle Seating Tool 224421-1)



Recommended PC Board Hole Layout

Positions	Dimer	nsions	Standard *10A	High Current *15A	
Positions	Α	В	Base Part Number ¹	Base Part Number	
4	15.00 .591	12.75 .502	5646954	120954	
5	18.00 .709	15.75 .620	5646955	120955	
6	21.00 .827	18.75 .738	5646956	120956	
7	24.00 .945	21.75 .856	5646957	120957	
8	27.00 1.063	24.75 .974	5646958	120958	

Note: For additional Power Module options reference Catalog 1773096, "Power Connectors and Interconnection Systems," or contact your Tyco Electronics Sales Representative.

¹ Dash number indicates sequence pattern. See customer drawing for specific dash numbers.

*Reference Product Specification 108-1651.

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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Z-PACK HS3 Connector (Continued)

4.16 [.164] Dia.

2.03 Dia

[.080]

Power and Guide Hardware (Continued)

Κ

AMP-HDI Static Discharge Guide/Power Pins

Compatibility — Z-PACK HS3, Z-PACK 2mm HM connectors Part Number — 532828-5* Nut - 21124-4

Washer — 986794-1 Max. Current Rating — 10 Amperes *Additional sequence lengths are available, contact Tyco Electronics

Material and Finish

Brass, plated 0.00076 [.000030] gold over 0.00127-0.00254 [.000050-.000100] nickel

AMP-HDI Guide Pin/Power Receptacles

Compatibility — Z-PACK HS3 connector

Part Number — 535875-1* Max. Current Rating - 10 Amperes *Additional lengths are available, see customer drawing.

Material and Finish

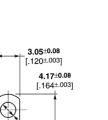
Contact Finish - 0.00076 [.000030] gold in contact area, over 0.00127 [.000050] min. nickel underplate. Gold flash on remainder of the contact.

ESD-Guide Pin/Feed-through Compatibility — Z-PACK HS3 connector

Part Number — 120759-2* Max. Current Rating — 10 Amperes *Additional sequence lengths are available, contact Tyco Electronics

Material and Finish

Brass, plated 0.00076 [.000030] gold all over 0.001427-0.00254 [.000050-.000100] nickel underplate





37.25 [1.47] 26.03 [1.03] 11.00 24.26 Ref. [.433] 1.78 [.960] [.070] [.001] Spherical Radius 2.50 [.098] Max. MB

Note: All part numbers are RoHS compliant.

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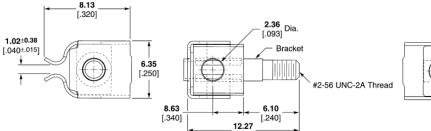
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[.483]

24.89 [.980]

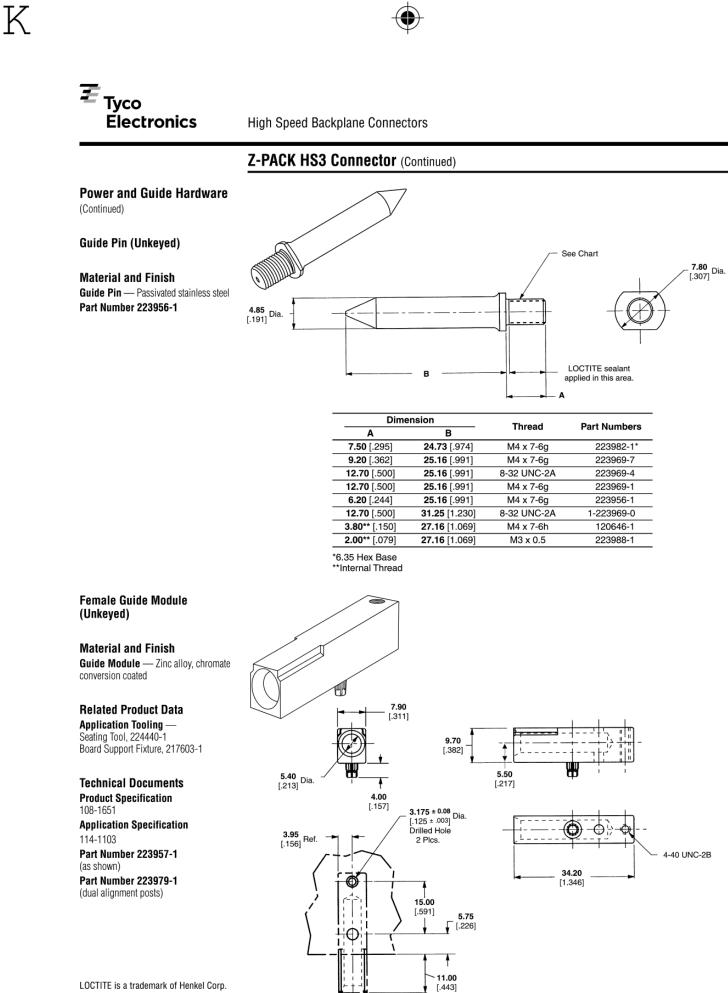
#2-56 UNC-2A

Thread

12.06 [.475]



Z-PACK HS3 Connector



Recommended PC Board Hole Layout

Note: All part numbers are RoHS compliant.

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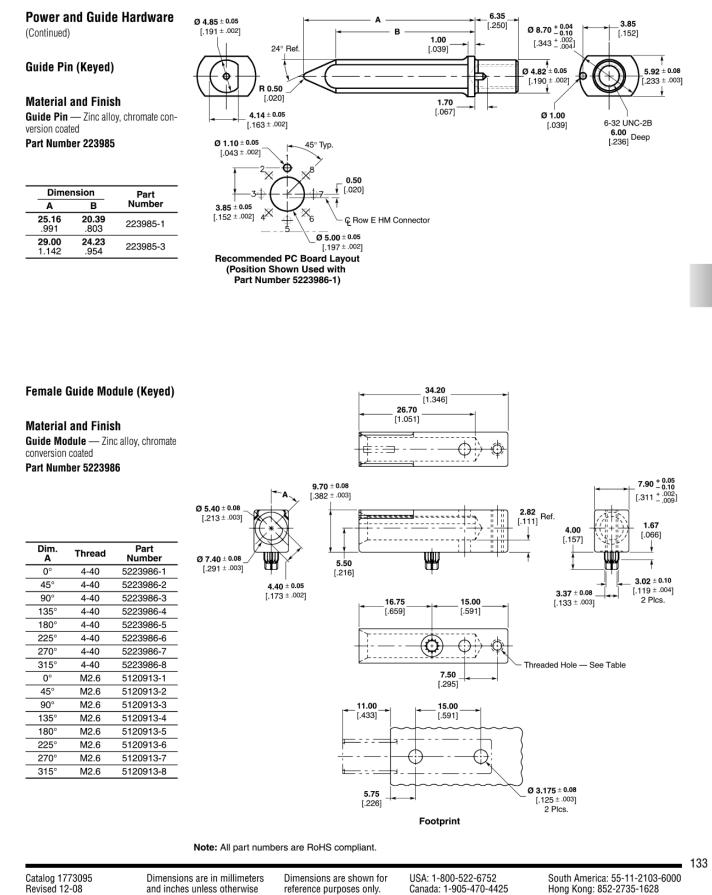
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High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)



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UK: 44-8706-080-208

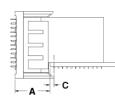
Z-PACK HS3 Connector

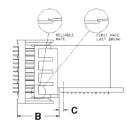


High Speed Backplane Connectors

Z-PACK HS3 Connector (Continued)

Z-PACK HS-3 Connector Mating Sequence Chart





	Fully I	Mated		Reliable Mate			
Product Family	Dim. C	Dim. A Fully Mated	Contact	Dim Reliable Mate	B. First Mate Last Break	Fully Mated Wipe Length	
			Ground Shield	16.78 [.661]	17.55 [.691]	4.28 [.169]	
Z-PACK HM-Zd	1.50	12.50	Signal Level 2	15.41 [.607]	15.85 [.624]	2.91 [.115]	
Product	.059	.492	Signal Level 1	13.91 [.548]	14.35 [.565]	1.41 [.056]	
			24.0 mm Pin	27.50 [1.083]	33.40 [1.315]	N/A	
Z-PACK HM-Zd Guide	3.00	12.50	22.2 mm Pin	25.70 [1.012]	31.60 [1.244]	N/A	
Hardware	.118	.492	Key Blocking Point	N/A	22.03 [.867]	N/A	
			Ground Pins	16.44 [.647]	17.13 [.674]	3.94 [.155]	
Z-PACK TinMan	1.50 .059	12.50 .492	Signal Level 2	14.94 [.588]	15.63 [.615]	2.44 [.096]	
Product	.059	.492	Signal Level 1	N/A	N/A	N/A	
			Signal Level 3	18.27 [.719]	18.84 [.742]	5.77 [.227]	
-PACK 2mm HM	1.50 .059	12.50 .492	Signal Level 2	16.77 [.660]	17.34 [.683]	4.27 [.168]	
Product	.059	.492	Signal Level 1	15.27 [.601]	15.84 [.624]	2.77 [.109]	
			Ground	18.00 [.709]	_	5.50 [.217]	
MULTIGIG RT	2.50	12.50	Signal Level 3	18.00 [.709]	_	5.50 [.217]	
T1 Product	.098	.492	Signal Level 2	16.50 [.650]	_	4.00 [.157]	
Troduct			Signal Level 1	15.00 [.591]	_	2.50 [.098]	
			Ground	18.00 [.709]	_	5.50 [.217]	
MULTIGIG RT	2.25	12.50	Signal Level 3	18.00 [.709]	_	5.50 [.217]	
T2 Product	089	.492	Signal Level 2	16.50 [.650]	_	4.00 [.157]	
			Signal Level 1	15.00 [.591]	_	2.50 [.098]	
MULTIGIG BT	5.50 .217		Power Level 3	23.75 [.935]	_	11.25 [.443]	
Power		12.50 .492	Power Level 2	22.25 [.876]	_	9.75 [.384]	
Module		.432	Power Level 1	20.75 [.817]	_	8.25 [.325]	
MULTIGIG RT		12.50 .492	Guide Pin Key	33.25 [1.309]	N/A	20.75 [.817]	
Guide Hardware	N/A		Guide ESD Contact	30.75 [1.211]	_	18.25 [.719]	
Tharanaro			Ground	17.08 [.672]	17.60 [.693]	4.78 [.188]	
Z-PACK HS3	1.50	12.50	Signal Level 2	16.05 [.632]	16.47 [.648]	3.75 [.148]	
Product	.059	.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]	
UPM	3.50	12.50	Power Level 2	18.65 [.734]	19.35 [.762]	6.50 [.256]	
	.138	.492	Power Level 1	17.03 [.670]	17.73 [.698]	4.88 [.192]	
UPM			Guide Pin Key	31.39 [1.236]	36.16 [1.424]	N/A	
Guide	5.75	12.50	Keyed Guide Pin	31.39 [1.236]	36.16 [1.424]	N/A	
Hardware	.226	.492	Keyed Guide Pin	35.23 [1.387]	40.00 [1.575]	N/A	
			PreMate Power — Level 1	_	16.84 [.663]	5.61 [.221] Min.	
MULTI-BEAM XL Right Angle	5.08	14.73	PostMate Power — Level 2	—	17.81 [.701]	4.34 [.171] Min.	
Header to Vertical Receptacle	.200	.580	PreMate Signal — Level 2		18.26 [.719]	3.81 [.150] Min.	
			PostMate Signal — Level 3	_	19.53 [.769]	2.54 [.100] Min.	
MULTI-BEAM XL Right Angle Receptacle			PreMate Power — Level 1	_	15.32 [.603]	5.61 [.221] Min.	
	3.81	13.21	PostMate Power — Level 2	_	16.28 [.641]	4.34 [.171] Min.	
to Vertical Header	.150	.520	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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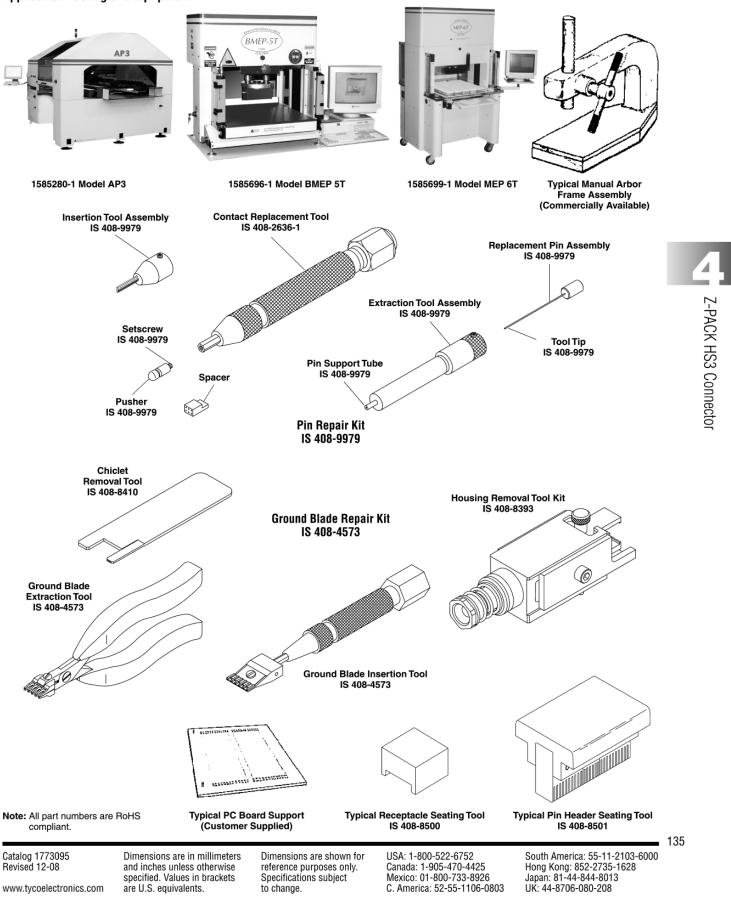
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Z-PACK HS3 Connector (Continued)





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High Speed Backplane Connectors

Engineering Notes

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