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Part Number: [0877159012](#)
Status: **Planned for Obsolescence**
Description: 1.00mm (.039") Pitch, PCI Express* Connector, 36 Circuits, Nylon 4/6 Glass-filled, White Housing, Phosphor Bronze, 0.38µm (15µ") Gold (Au) Plating, with Plastic Pegs, 2.54mm (.100") Solder tail, Lead Free

Documents:

[3D Model](#) [Product Specification PS-87715-200 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

Product Family Edge Card Connectors
Series [87715](#)
Comments PCI 1 lane
Component Type Edgecard to PCB
Product Name PCI Express*

Physical

Circuits (Loaded) 36
Circuits (maximum) 36
Circuits Detail All Signal
Durability (mating cycles max) 50
Entry Angle Vertical (Top Entry)
Flammability 94V-0
Keying to Mating Part Yes
Material - Plating Mating Gold
PC Tail Length (in) 0.100 In
PC Tail Length (mm) 2.54 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.039 In
Pitch - Mating Interface (mm) 1.00 mm
Pitch - Term. Interface (in) 0.039 In
Pitch - Term. Interface (mm) 1.00 mm
Polarized to Mating Part Yes
Temperature Range - Operating -55°C to +85°C
Termination Interface: Style Through Hole

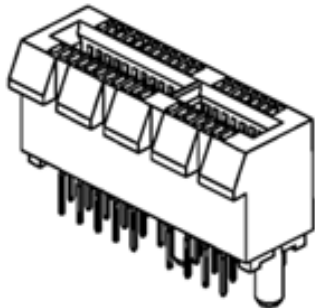
Electrical

Current - Maximum per Contact 1.1A
Voltage - Maximum 50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Packaging Specification PK-87715-207
Product Specification PS-87715-200
Sales Drawing SD-87715-207, SD-87715-901
Test Summary TS-87715-207



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**
Not Reviewed

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

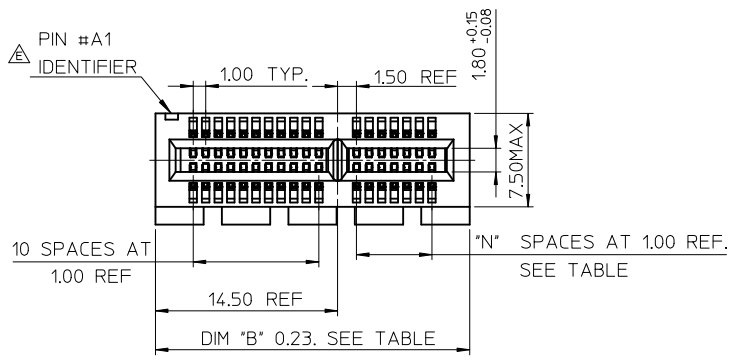
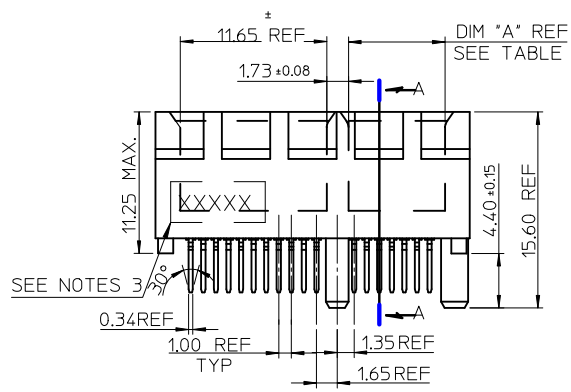
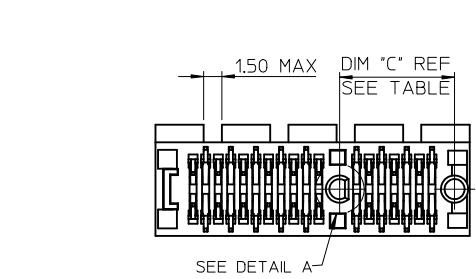
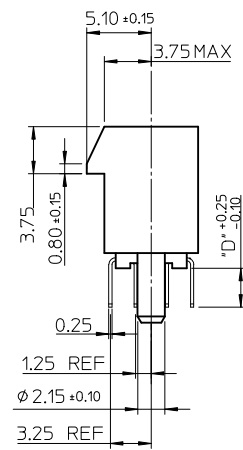
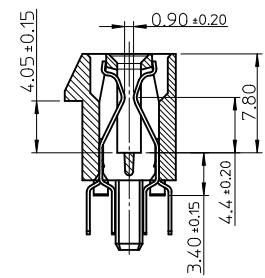
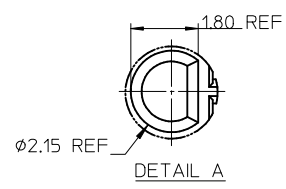
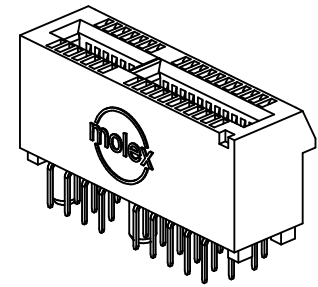
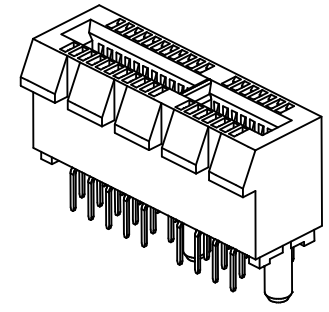
Search Parts in this Series
[87715Series](#)

Mates With
PCI Express Card

* PCI Express is a registered trademark of PCI-SIG®

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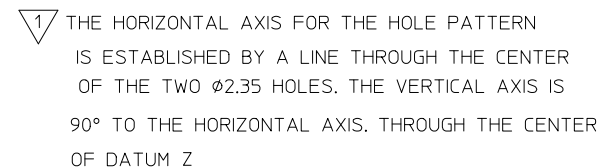


- NOTES:
- 1.MATERIALS:
- 1-1.HOUSING: SEE TABLE ,GLASS FIBER FILLED UL94V-0, COLOR: SEE TABLE.
- 1-2.CONTACT: SEE TABLE
- 2.PLATING:
- 2-1.CONTACT AREA: GOLD, THICKNESS : SEE TABLE .
- 2-2.SOLDER TAIL: 100 MICRINCH MIN. TIN PLATING.
- 2-3.UNDER PLATING: NICKEL PLATING OVERALL.
- 3.WEEK CODE: XX(YEAR) XX(WEEK) X(LOCATION).
- 4.PRODUCT SPECIFICATION REFER TO PS-87715-200.
- 5.PACKAGING SPECIFICATION REFER TO PK-87715-207.
- 6.TEST SUMMARY:REFER TO TS-87715-207.
- 7.LEAD FREE AND ROHS COMPLIANCE PRODUCT.

CONNECTOR LINK WIDTH	# POS REF	N	DIM 'A'	DIM 'B'	DIM 'C'
X4	64	20	21.65	39.00	23.15
X8	98	37	38.65	56.00	40.15

PCB THK (REF)	DIM 'D'
1.60	2.30
1.58	2.54
2.36	3.00

REVISED EC NO: SH2010-0425 G DRWNR:ZHANG CHKD:ALLEN LIN APPR:X.J.SONG	DESCRIPTION REV	QUALITY SYMBOLS F=0 F=0 F=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION)	MOLEX INCORPORATED	DOCUMENT NO. SD-87715-207	SHEET NO. 1 OF 4															
			4 PLACES ± --- ± ---		DRAWN BY TOM	DATE 2004/07/20																					
			3 PLACES ± --- ± ---																								
			2 PLACES ± 0.25 ± ---		CHECKED BY ALLEN LIN	DATE 2004/07/20																					
			1 PLACE ± 0.25 ± ---																								
			ANGULAR ± 3 °		APPROVED BY WILSON	DATE 2004/07/20																					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																								
			SEE SHEET 4		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						



SEE SHEET 1 EC NO: SH2010-0425 DRAWN: ZHANG 2010/05/14 CHK'D: ALLEN LIN 2010/07/20 APPR: X J SONG 2010/06/03	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		= 0	mm	INCH	DRAWN BY	DATE	TITLE PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION) MOLEX INCORPORATED		
		= 0	4 PLACES ± ---	± ---	TOM	2004/07/20			
		= 0	3 PLACES ± ---	± ---	CHECKED BY	DATE			
		= 0	2 PLACES ± 0.25	± ---	ALLEN LIN	2004/07/20			
		= 0	1 PLACE ± 0.25	± ---	APPROVED BY	DATE	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-87715-207	SHEET NO. 2 OF 4
			ANGULAR ± 3 °		WILSON	2004/07/20			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

10 9 8 7 6 5 4 3 2 1

F

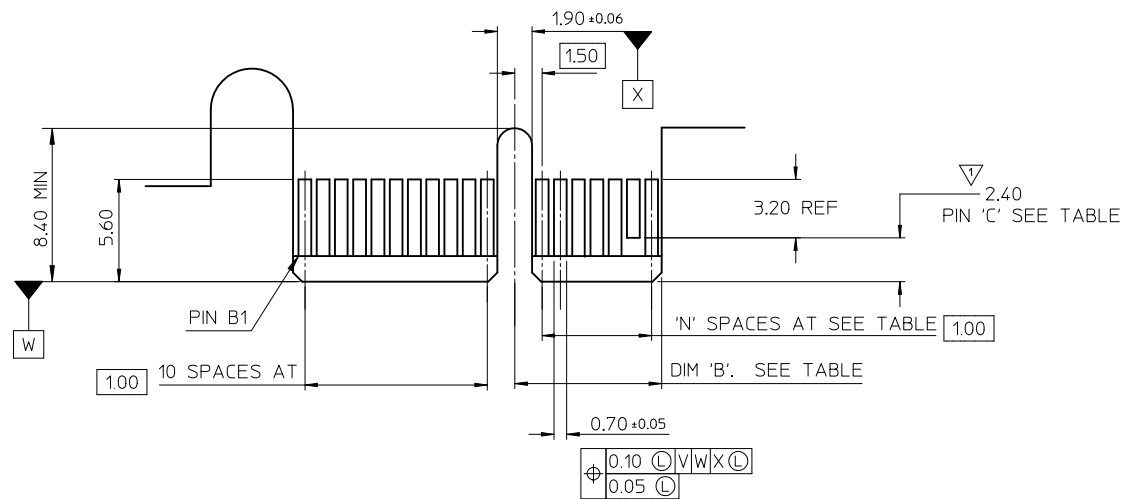
E

D

C

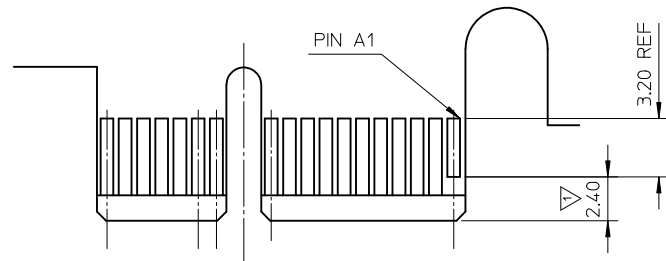
B

A



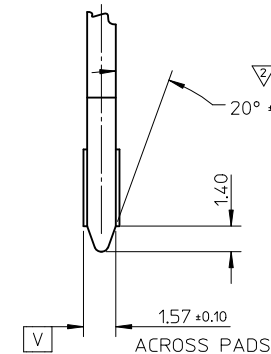
← I/O PANEL DIRECTION

PRIMARY (COMPONENT) SIDE



I/O PANEL DIRECTION →

SECONDARY (SOLDER) SIDE



- 1 NO TIE BAR PERMITTED FROM CARD EDGE TO LEADING EDGE OF PAD FOR PINS A1 AND "C".
- 2 CHAMFER EDGES MUST BE FREE OF CUTTING BURRS.
3. TOLERANCE: .XX±.13

CONNECTOR LINK WIDTH	# POS REF	N	DIM 'B'	'C'
X4	64	20	22.15	B17, B31
X8	98	37	39.15	B17, B31 B48

SEE SHEET 1 EC NO: SH2010-0425 DRAWN: ZHANG 2010/05/14 CHKD: ALLEN LIN 2004/07/20 APPR: XJ SONG 2010/06/03	DESCRIPTION	QUALITY SYMBOLS <div>▽_A=0</div> <div>▽_B=0</div> <div>▽_C=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY	DATE	TITLE PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION)			
			4 PLACES	± ---	± ---	TOM	2004/07/20				
			3 PLACES	± ---	± ---	CHECKED BY	DATE				
			2 PLACES	± 0.25	± ---	ALLEN LIN	2004/07/20				
			1 PLACE	± 0.25	± ---	APPROVED BY	DATE	 MOLEX INCORPORATED			
			ANGULAR ± 3 °		WILSON	2004/07/20					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					SEE SHEET 4		SD-87715-207		3 OF 4		
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

F

F

E

E

D

D

C

C

B

B

A

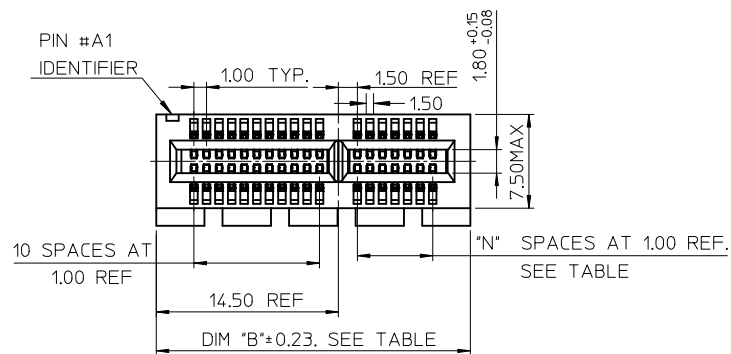
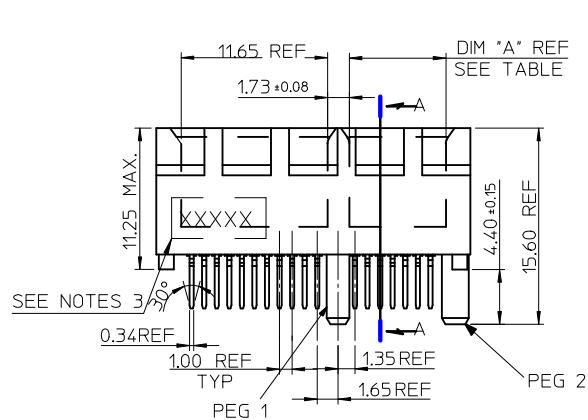
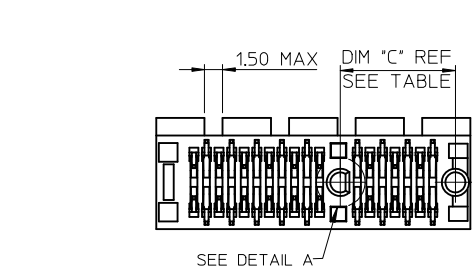
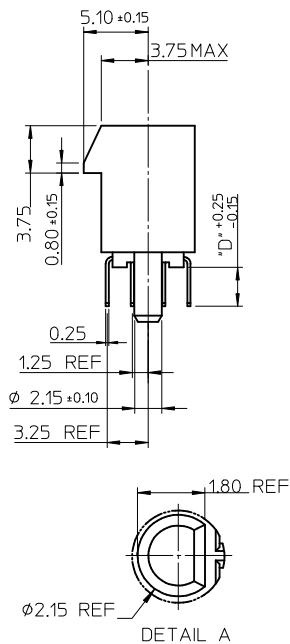
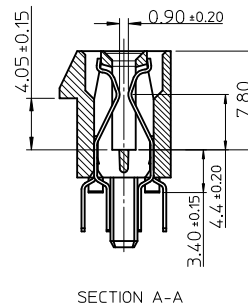
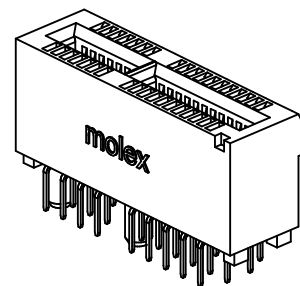
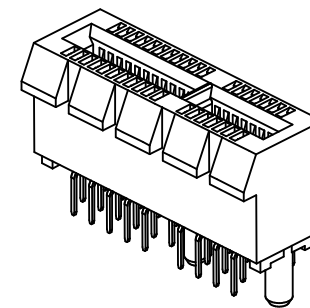
A

MOLEX P/N	CIRCUIT SIZE	HOUSING MATERIAL	HOUSING COLOR	TERMINAL MATERIAL	CONTACT PLATING	SOLDER TAIL 'D' LENGTH
87715-9100	64	NYLON46	BLACK	PHOSPHOR BRONZE	GOLD FLASH	2.54
87715-9101					10 MICROINCH	
87715-9102					15 MICROINCH	
87715-9103					GOLD FLASH	3.00
87715-9104					10 MICROINCH	
87715-9105					15 MICROINCH	
87715-9106					30 MICROINCH	2.54
87715-9107					GOLD FLASH	2.30
87715-9108					15 MICROINCH	
87715-9109					30 MICROINCH	3.00

MOLEX P/N	CIRCUIT SIZE	HOUSING MATERIAL	HOUSING COLOR	TERMINAL MATERIAL	CONTACT PLATING	SOLDER TAIL 'D' LENGTH
87715-9200	98	NYLON46	BLACK	PHOSPHOR BRONZE	GOLD FLASH	2.54
87715-9201					10 MICROINCH	
87715-9202					15 MICROINCH	
87715-9203					GOLD FLASH	3.00
87715-9204					10 MICROINCH	
87715-9205					15 MICROINCH	
87715-9206					30 MICROINCH	2.54
87715-9207					GOLD FLASH	2.30
87715-9208					15 MICROINCH	
87715-9209					30 MICROINCH	3.00

MOLEX P/N	CIRCUIT SIZE	HOUSING MATERIAL	HOUSING COLOR	TERMINAL MATERIAL	CONTACT PLATING	SOLDER TAIL 'D' LENGTH
87715-9602	98	NYLON46	BLACK	BRASS	15 MICROINCH	2.54

SEE SHEET 1 EC NO: SH2010-0425 G DRWN:RZHANG 2010/05/14 CHKD:ALLEN LIN 2004/07/20 APPR:XJ.SONG 2010/06/03	DESCRIPTION REV	QUALITY SYMBOLS <div>F_A=0</div> <div>F_G=0</div> <div>F_P=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY	DATE	TITLE <div>PCI EXPRESS</div> <div>EDGE CARD CONNECTOR</div> <div>(LEAD FREE VERSION)</div> <div>MOLEX INCORPORATED</div>		
			4 PLACES	± ---	± ---	TOM	2004/07/20			
			3 PLACES	± ---	± ---	CHECKED BY	DATE			
			2 PLACES	± 0.25	± ---	ALLEN LIN	2004/07/20			
			1 PLACE	± 0.25	± ---	APPROVED BY	DATE			
			ANGULAR ± 3 °		WILSON		2004/07/20			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
					SIZE A3		SEE TABLE		SD-87715-207	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										



NOTES:

1.MATERIALS:

1-1.HOUSING: SEE TABLE ,GLASS FIBER FILLED UL94V-0,
COLOR: SEE TABLE.

1-2.CONTACT: SEE TABLE

2.PLATING:

2-1.CONTACT AREA: GOLD, THICKNESS : SEE TABLE .

2-2.SOLDER TAIL: 100 MICROINCH MIN. TIN PLATING.

2-3.UNDER PLATING: NICKEL PLATING OVERALL.

3.DATE CODE: YY MM DD.

4.PRODUCT SPECIFICATION REFER TO PS-87715-200.

5.TEST SUMMARY:REFER TO TS-87715-207.

CONNECTOR LINK WIDTH	# POS REF	N	DIM 'A'	DIM 'B'	DIM 'C'
X1	36	6	7.65	25.00	9.15
X16	164	70	71.65	89.00	73.15

PCB THK (REF)	DIM 'D'
1.58	2.54
2.36	3.00

REV	DESCRIPTION	DATE	BY
REVISED	EC NO: SH2010-0425	2010/05/14	DRWNRZhang
	CHKD:Harvey	2007/05/14	
	APPR:XJ Song	2010/06/03	

QUALITY SYMBOLS
F=0
F=0
F=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		METRIC	
DRAWN BY	DATE	TITLE	
DAVID HU	2007/05/14	PCI EXPRESS	
CHECKED BY	DATE	EDGE CARD CONNECTOR	
HARVEY	2007/05/14	(LEAD FREE VERSION)	
APPROVED BY	DATE	MOLEX INCORPORATED	
JENNY CHEN	2007/05/14		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
SEE SHEET 4	SD-87715-901	1 OF 4	

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10 9 8 7 6 5 4 3 2 1

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E

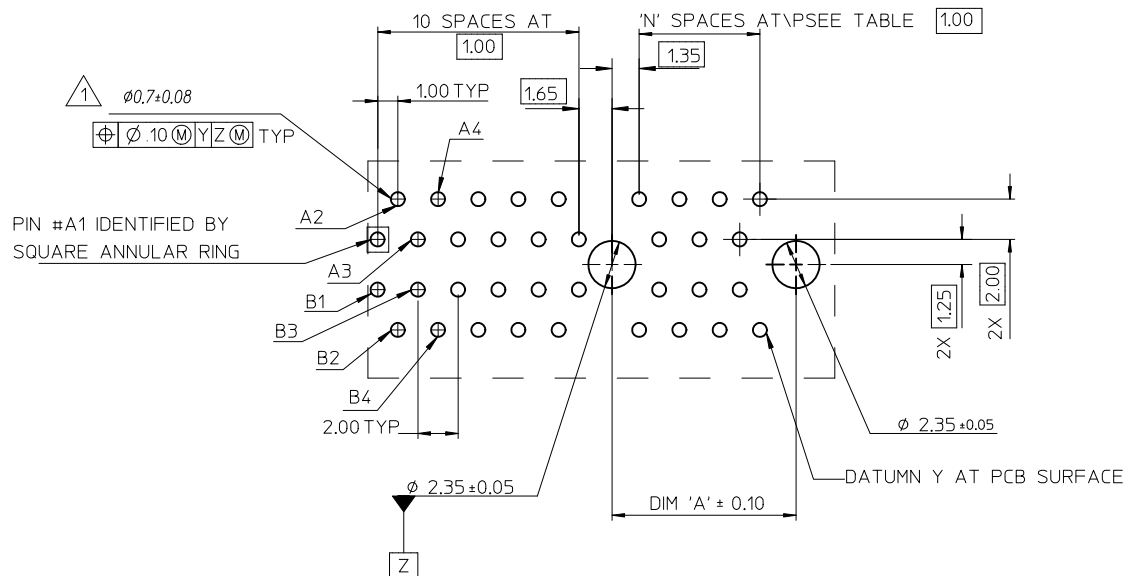
D

C

B

A

△1 THE HORIZONTAL AXIS FOR THE HOLE PATTERN IS ESTABLISHED BY A LINE THROUGH THE CENTER OF THE TWO $\phi 2.35$ HOLES. THE VERTICAL AXIS IS 90° TO THE HORIZONTAL AXIS, THROUGH THE CENTER OF DATUM Z



CONNECTOR LINK WIDTH	# POS REF	N	DIM 'A'
X1	36	6	9.15
X16	164	70	73.15

SEE SHEET 1 EC NO: SH2010-0425 DRWN:RZHANG 2010/05/14 CHKD:HARVEY 2007/05/14 APPR:XJ.SONG 2010/06/03	QUALITY SYMBOLS <div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY DAVID HU	DATE 2007/05/14	TITLE PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION)		
		4 PLACES	± ---	± ---	CHECKED BY HARVEY	DATE 2007/05/14			
		3 PLACES	± ---	± ---	APPROVED BY JENNY CHEN		DATE 2007/05/14	 MOLEX INCORPORATED	
		2 PLACES	± 0.25	± ---	MATERIAL NO.		DOCUMENT NO.		
1 PLACE	± 0.25	± ---	SEE SHEET 1		SD-87715-901	2 OF 4			
ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

9 8 7 6 5 4 3 2 1



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