

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0877159205

Status:

Active

Overview:

Description:

1.00mm (.039") Pitch, PCI Express* Connector, 98 Circuits, Nylon 4/6 Glass-filled, Black Housing, Phosphor Bronze, 0.38µm (15µ") Gold (Au) Plating, with Plastic Pegs, 3.00mm (.118") Solder tail, Lead Free

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Edge Card Connectors
Series	87715
Comments	PCI 8 lanes
Component Type	Edgecard to PCB
Overview	pci_express_card_edge_connector
Product Name	PCI Express*

Physical

Circuits (Loaded)	98
Circuits (maximum)	98
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
Material - Plating Termination	Tin
PC Tail Length (in)	0.118 In
PC Tail Length (mm)	3.00 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.40 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
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.38
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

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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

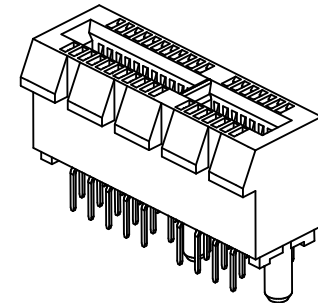
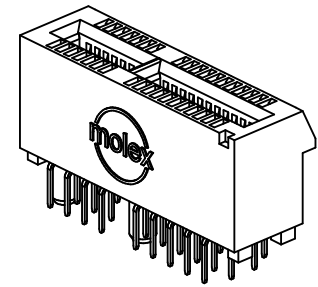
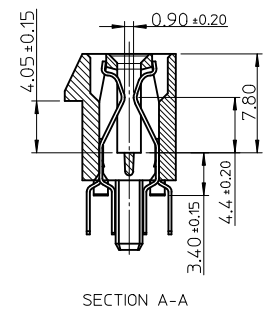
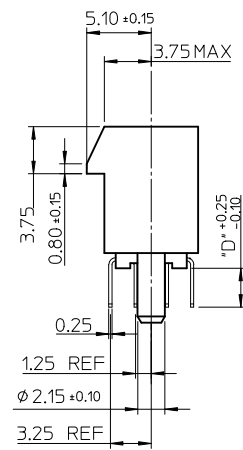
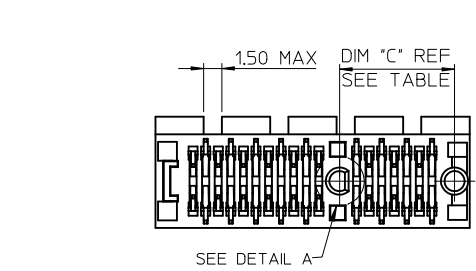
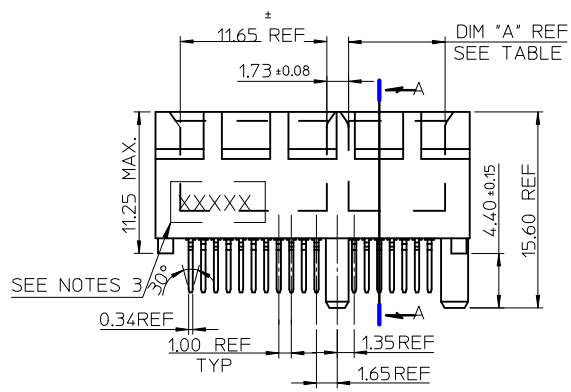
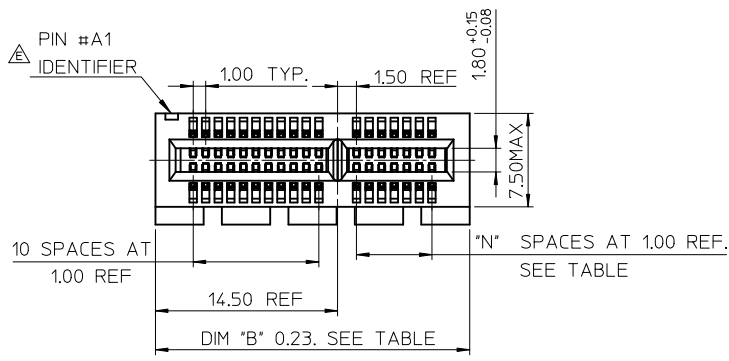
Reference - Drawing Numbers

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

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

This document was generated on 06/04/2010

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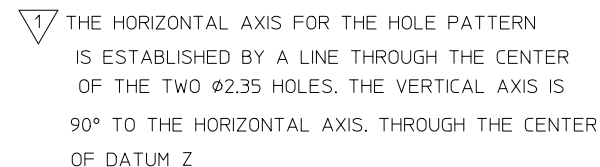


- NOTES:
- 1.MATERIALS:
- 1-1.HOUSING: SEE TABLE ,GLASS FIBER FILLED UL94V-0, COLOR: SEE TABLE.
 - 1-2.CONTACT: SEE TABLE
- 2.PLATING:
- 2-1.CONTACT AREA: GOLD, THICKNESS : SEE TABLE .
 - 2-2.SOLDER TAIL: 100 MICRINCH MIN. TIN PLATING.
 - 2-3.UNDER PLATING: NICKEL PLATING OVERALL.
- 3.WEEK CODE: XX(YEAR) 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 DRWNRZhang CHKD:ALLEN LIN APPR:XJ.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		
			mm	INCH	DRAWN BY TOM	DATE 2004/07/20	TITLE PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION)				
		4 PLACES	± ---	± ---	CHECKED BY ALLEN LIN	DATE 2004/07/20	MOLEX INCORPORATED				
		3 PLACES	± ---	± ---	APPROVED BY WILSON	DATE 2004/07/20					
		2 PLACES	± 0.25	± ---	MATERIAL NO.			DOCUMENT NO.		SHEET NO.	
1 PLACE	± 0.25	± ---	SEE SHEET 4			SD-87715-207		1 OF 4			
			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					



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  =0  =0	<table><tr><td></td><td>mm</td><td></td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td></td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td></td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± 0.25</td><td></td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± 0.25</td><td></td><td>± ---</td></tr><tr><td colspan="4">ANGULAR ± 3 °</td></tr></table>		mm		INCH	4 PLACES	± ---		± ---	3 PLACES	± ---		± ---	2 PLACES	± 0.25		± ---	1 PLACE	± 0.25		± ---	ANGULAR ± 3 °				<table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>TOM</td><td>2004/07/20</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>ALLEN LIN</td><td>2004/07/20</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>WILSON</td><td>2004/07/20</td></tr></table>	DRAWN BY	DATE	TOM	2004/07/20	CHECKED BY	DATE	ALLEN LIN	2004/07/20	APPROVED BY	DATE	WILSON	2004/07/20	TITLE PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION)			
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10 9 8 7 6 5 4 3 2 1

F

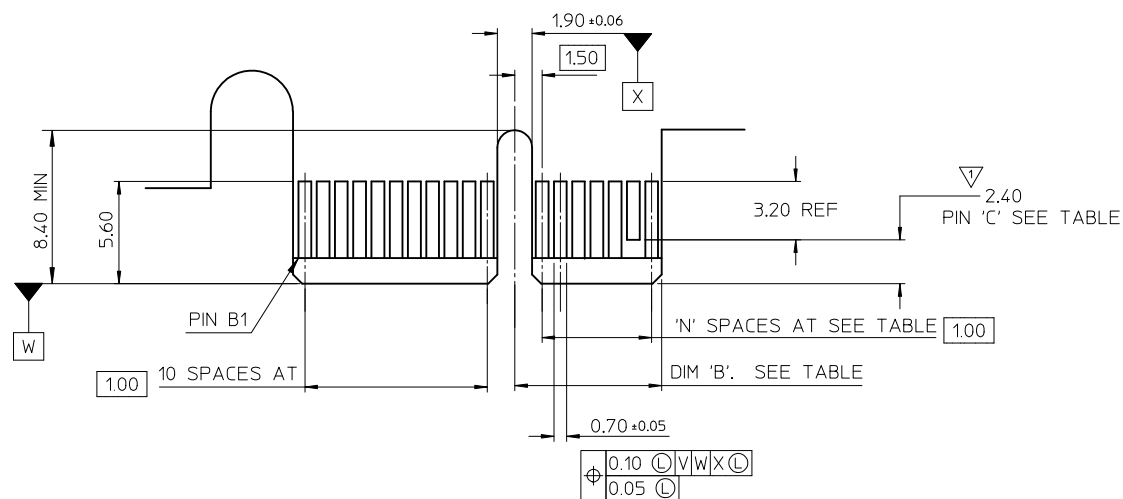
E

D

C

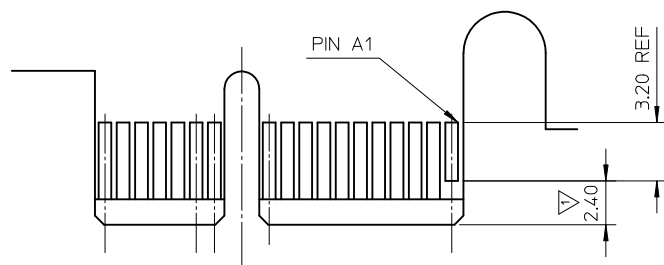
B

A



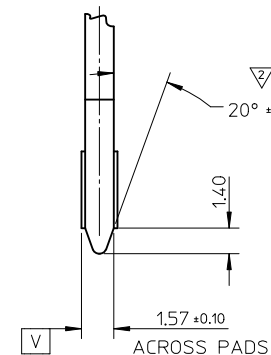
← I/O PANEL DIRECTION

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 F_A=0 F_B=0 F_C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
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			4 PLACES	± ---	± ---	TOM	2004/07/20				
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			2 PLACES	± 0.25	± ---	ALLEN LIN	2004/07/20				
			1 PLACE	± 0.25	± ---	APPROVED BY	DATE	DOCUMENT NO.			
			ANGULAR ± 3 °			WILSON	2004/07/20				
			DRAFT WHERE APPLICABLE			MATERIAL NO.		SHEET NO. 3 OF 4			
MUST REMAIN WITHIN DIMENSIONS			SEE SHEET 4								
REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

F

E

D

C

B

A

F

E

D

C

B

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

DRWN:RZHANG

CHKD:ALLEN LIN

APPR:XJ.SONG

REV

2010/05/14

2004/07/20

2010/06/03

DESCRIPTION

QUALITY SYMBOLS

F_A

=0

F_G

=0

F_P

=0

4 PLACES

3 PLACES

2 PLACES

1 PLACE

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE

MUST REMAIN

WITHIN DIMENSIONS

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

± ---

± ---

± 0.25

± ---

± 3 °

DIMENSION STYLE

MM ONLY

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

SEE TABLE

SIZE

A3

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

SEE TABLE

SIZE

A3

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.

4 OF 4

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Rev. F 2009/06/18

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