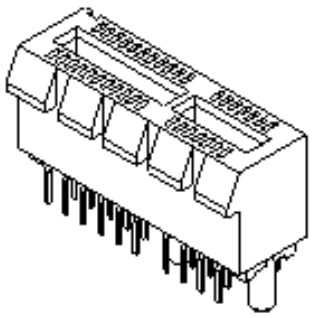
This document was generated on 06/01/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0877156000

Status: Planned for Obsolescence

Description: 1.00mm (.039") Pitch, PCI Express* Connector, 36 Circuits, Nylon 6/6 Glass-filled, Black Housing, Phosphor Bronze, Gold (Au) Flash, with Plastic Pegs, 2.54mm (.100") Soldertail, Lead Free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87715-200 (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
Material - Plating Termination	Tin
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

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)
Process Temperature max. C	245

Material Info

Reference - Drawing Numbers

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

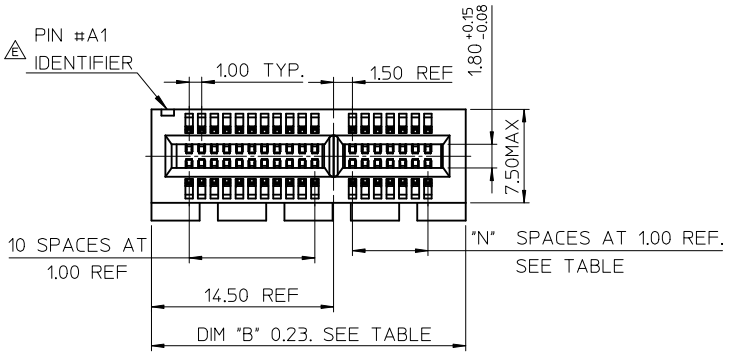
Mates With
PCI Express Card

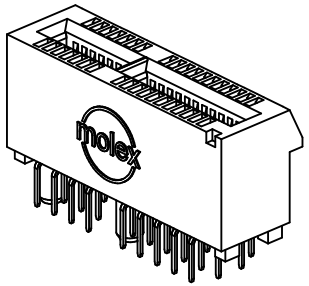
Packaging Specification	PK-87715-207
Product Specification	PS-87715-200
Sales Drawing	SD-87715-207
Test Summary	TS-87715-207

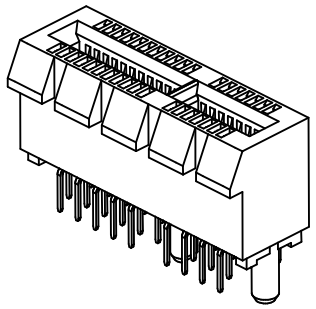
* PCI Express is a registered trademark of PCI-SIG®

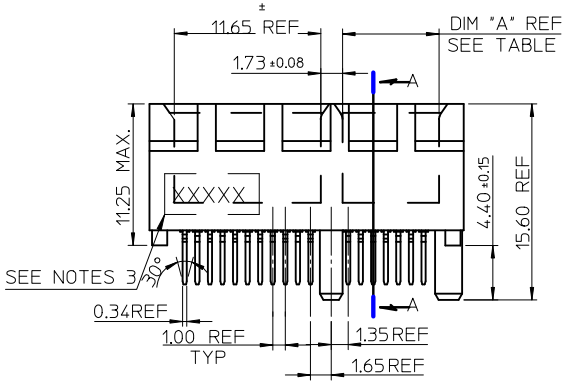
This document was generated on 06/01/2010

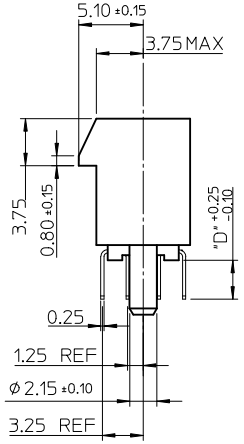
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

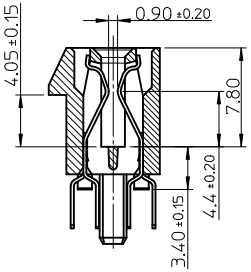




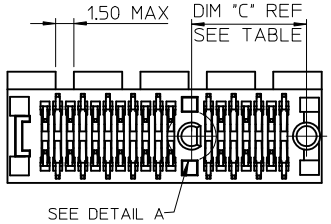


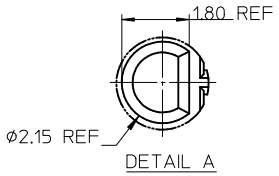






SECTION A-A





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.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 2010/05/14
DRWN:RZHANG 2004/07/20
CH'KD:ALLEN LIN
APPR:XJSONG 2010/06/03
DESCRIPTION
REV
G

QUALITY SYMBOLS
E/A=0
E/C=0
E/F=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

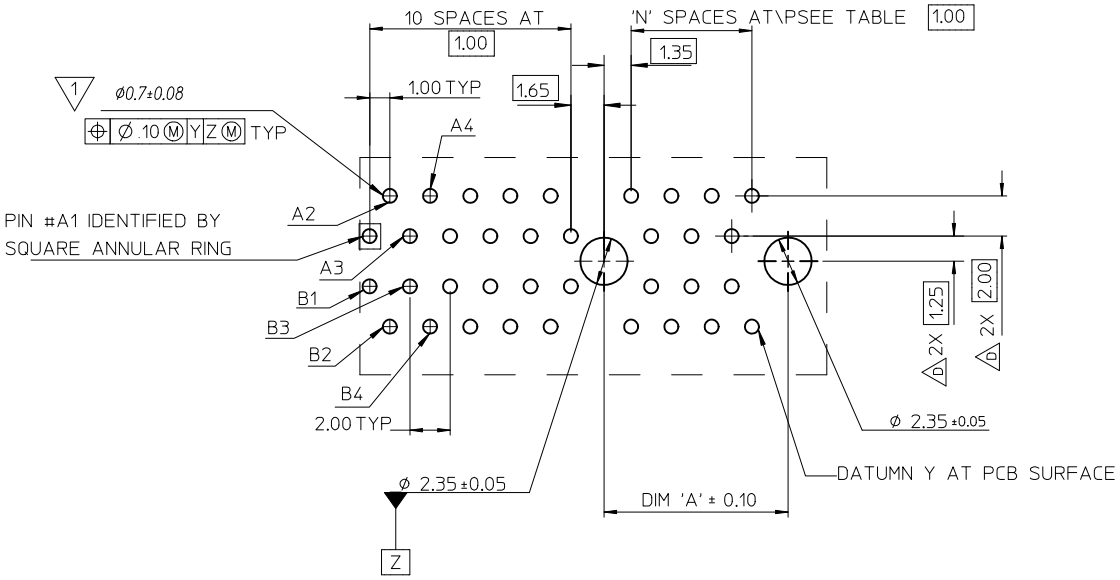
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TOM DATE: 2004/07/20
CHECKED BY: ALLEN LIN DATE: 2004/07/20
APPROVED BY: WILSON DATE: 2004/07/20
MATERIAL NO.: SEE SHEET 4

TITLE
PCI EXPRESS
EDGE CARD CONNECTOR
(LEAD FREE VERSION)
MOLEX INCORPORATED
DOCUMENT NO.: SD-87715-207
SHEET NO.: 1 OF 4
SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



1 THE HORIZONTAL AXIS FOR THE HOLE PATTERN IS ESTABLISHED BY A LINE THROUGH THE CENTER OF THE TWO ø2.35 HOLES. THE VERTICAL AXIS IS 90° TO THE HORIZONTAL AXIS. THROUGH THE CENTER OF DATUM Z

CONNECTOR LINK WIDTH	# POS REF	N	DIM 'A'
X4	64	20	23.15
X8	98	37	40.15

SEE SHEET 1
EC NO: SH2010-0425 2010/05/14
DRWN:RZHANG 2004/07/20
CH'KD:ALLEN LIN 2010/06/03
APPR:XJSONG
DESCRIPTION
G
REV

QUALITY SYMBOLS
FA=0
FC=0
FP=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: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

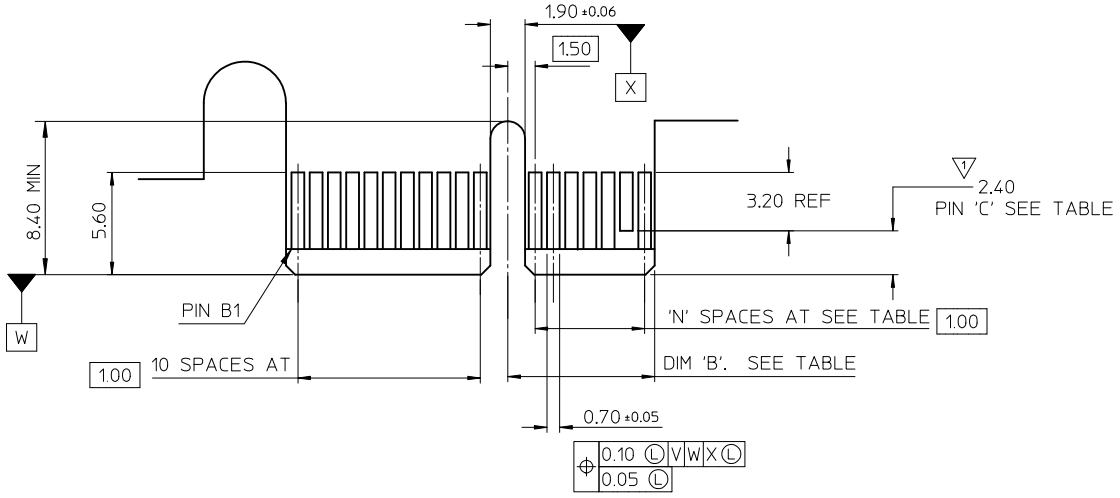
DRAWN BY: TOM DATE: 2004/07/20
CHECKED BY: ALLEN LIN DATE: 2004/07/20
APPROVED BY: WILSON DATE: 2004/07/20

TITLE: PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION)

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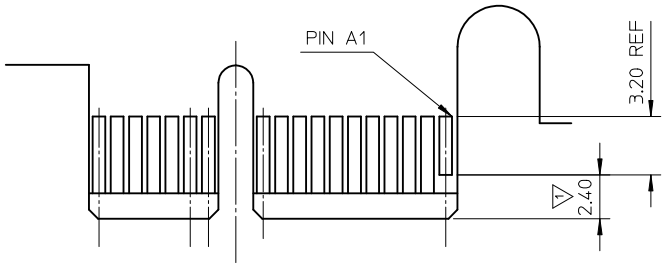
MATERIAL NO.: SEE SHEET 4
DOCUMENT NO.: SD-87715-207
SHEET NO.: 2 OF 4
SIZE: A3

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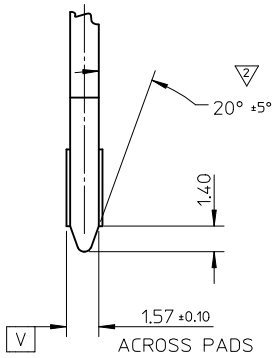
← I/O PANEL DIRECTION

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 EOGES MUST BE FREE OF CUTTING BURRS.
3. TOLERANCE: .XX±.13

CONNECTOR LINK WIDTH	# POS REF	N	DIM 'B'	'C' 1
X4	64	20	22.15	B17, B31
X8	98	37	39.15	B17, B31 B48

SEE SHEET 1
EC NO: SH2010-0425 2010/05/14
DRWN:RZHANG 2004/07/20
CHKD:ALLEN LIN 2004/07/20
APPR:XJSONG 2010/06/03
DESCRIPTION
G
REV

QUALITY SYMBOLS
FA=0
FC=0
FP=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: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TOM DATE: 2004/07/20
CHECKED BY: ALLEN LIN DATE: 2004/07/20
APPROVED BY: WILSON DATE: 2004/07/20
MATERIAL NO.: SEE SHEET 4

TITLE: PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION)
molex MOLEX INCORPORATED
DOCUMENT NO.: SD-87715-207
SHEET NO.: 3 OF 4
SIZE A3

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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 2010/05/14
DRWN:RZHANG 2004/07/20
CH'KD:ALLEN LIN 2004/07/20
APPR:XJSONG 2010/06/03
DESCRIPTION
G
REV

QUALITY SYMBOLS
$\sqrt{F_A}$=0
$\sqrt{F_C}$=0
$\sqrt{F_P}$=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: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: TOM DATE: 2004/07/20
CHECKED BY: ALLEN LIN DATE: 2004/07/20
APPROVED BY: WILSON DATE: 2004/07/20

TITLE: PCI EXPRESS EDGE CARD CONNECTOR (LEAD FREE VERSION)

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87715-207
SHEET NO.: 4 OF 4
SIZE: A3

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