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Part Number: 0475058302

Status: Active

Overview:

Description: 1.00mm (.039") Pitch, PCI Express* Connector, 164 Circuits, Nylon 4/6 Glass-filled, Black Housing, Phosphor Bronze, 0.38µm (15µ") Gold (Au) Plating, with Plastic Pegs, 2.54mm (.100") Soldertail, with Back-type Latch, Lead Free

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

General

Product Family	Edge Card Connectors
Series	87715
Comments	With Integrated Back-type Latch
Component Type	Edgecard to PCB
Overview	pci_express_card_edge_connector
Product Name	PCI Express*

Physical

Circuits (Loaded)	164
Circuits (maximum)	164
Circuits Detail	All Signal
Color - Resin	Black
Durability (mating cycles max)	50
Entry Angle	Vertical
Keying to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic, Nylon
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)	1.58 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)	0.375
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
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

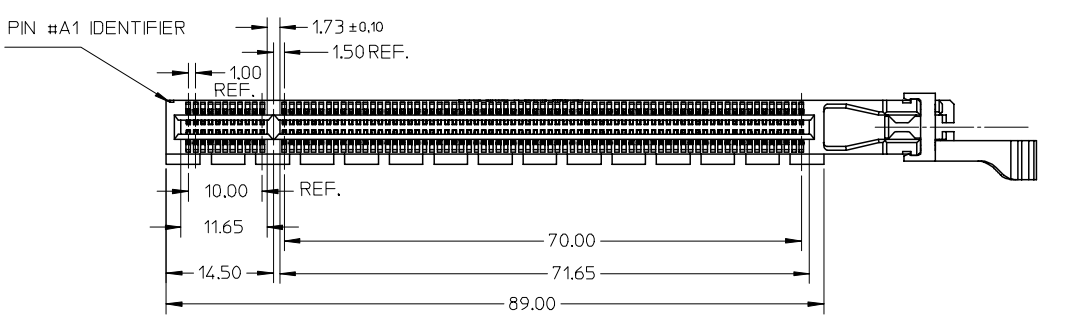
Reference - Drawing Numbers

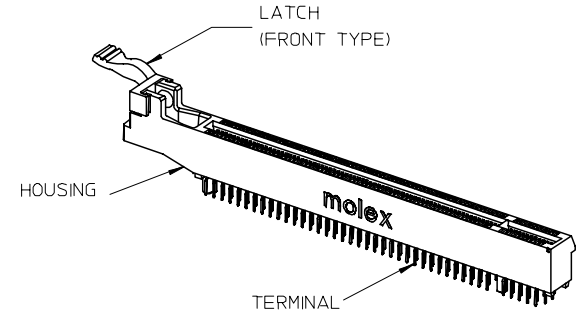
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Product Specification	PS-47505-001
Sales Drawing	SD-47505-001
Test Summary	TS-47505-001

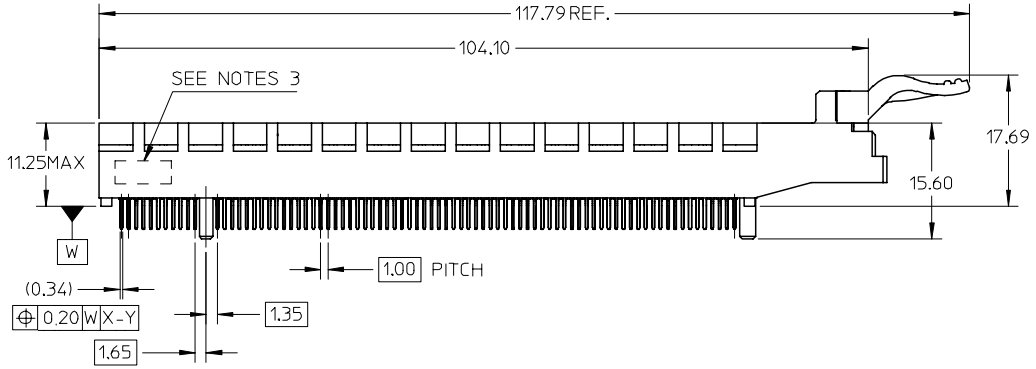
* PCI Express is a registered trademark of PCI-SIG®

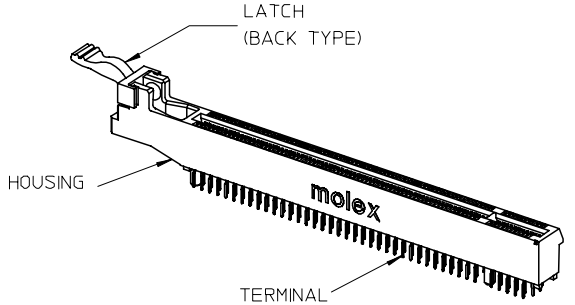
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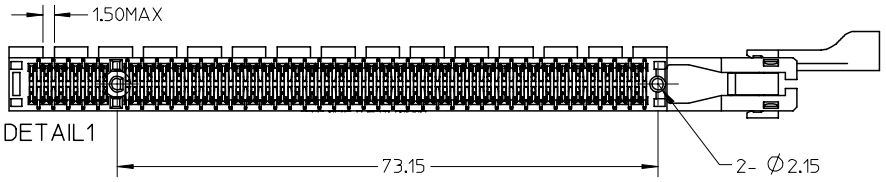


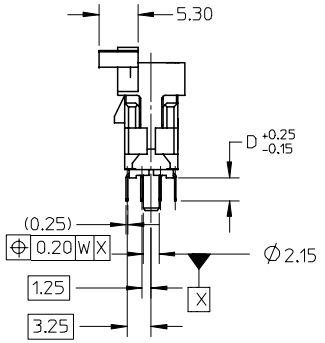


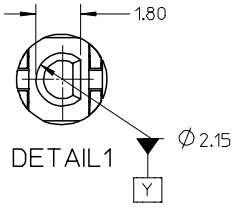




DIM"D"	PCB THK REF.
2.54	1.58
3.10	2.36







NOTES:
1.MATERIALS:
1-1.HOUSING:SEE TABLE ,GLASS FIBER FILLED UL94V-0,COLOR:SEE TABLE.
1-2.TERMINAL: SEE TABLE
1-3.LATCH:NYLON66,GLASS FIBER FILLED UL94V-0,COLOR:BLACK.
2.PLATING:
TERMINAL :
2-1.CONTACT AREA:SEE TABLE .
2-2.SOLDER TAIL:SEE TABLE.
2-3.UNDER PLATING: 50 MICROINCH MIN. NICKEL PLATING OVERALL.
3.DATE CODE: YY MM DD.
4.PART 47505-**** COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC.

NEW RELEASE
EC NO: SH2008-0170 2007/10/15
DRWN:DHU 2007/10/15
CHKD:ROST ZHANG 2007/11/13
APPR:HWANG
DESCRIPTION
A
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

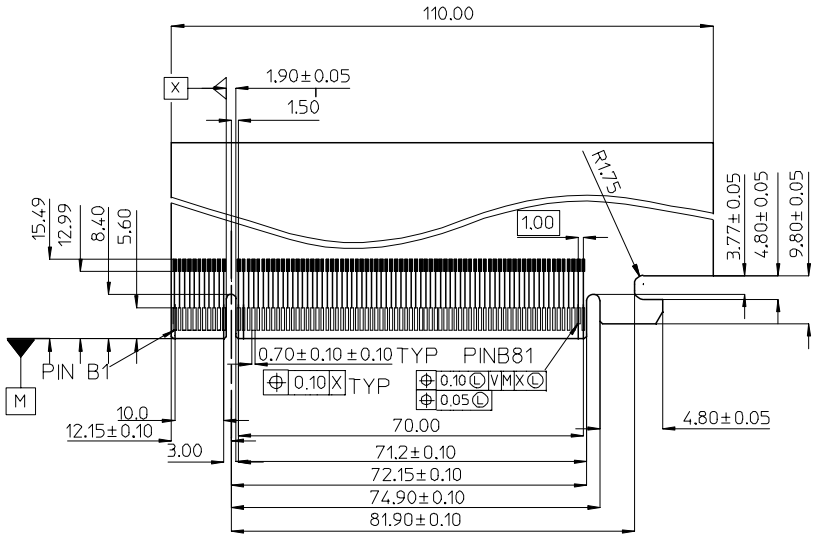
DRAWN BY: DAVID HU DATE: 2007/05/08
CHECKED BY: HARVEY DATE: 2007/05/08
APPROVED BY: JENNY CHEN DATE: 2007/05/08

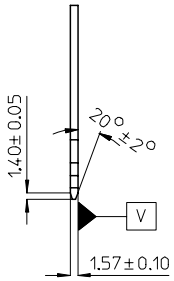
TITLE: 1.0MM PITCH PCI-EXPRESS 164CKTS W/RM LEAD-FREE

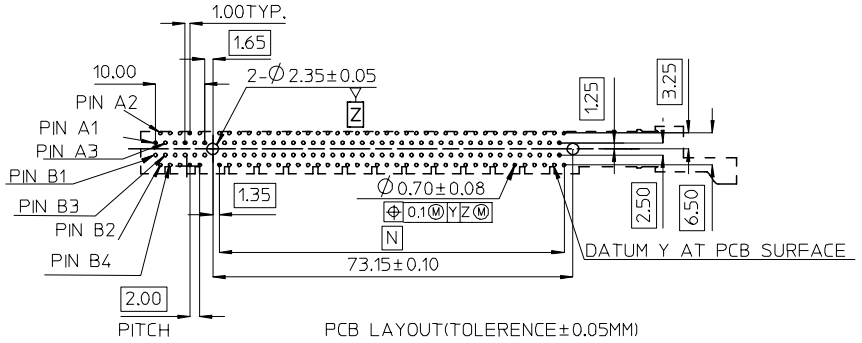
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-47505-001
SHEET NO.: 1 OF 4
SIZE: A3

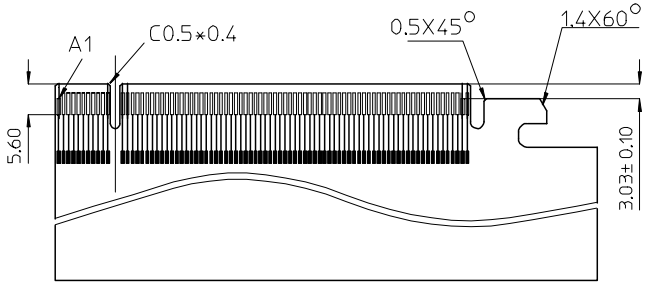
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PCB LAYOUT(TOLERENCE±0.05MM)



MODULE LAYOUT(MATING PART ONLY)
(TOLERENCE:±0.10MM)

1.NO TIE BAR PERMITTED FROM CARD EDGE TO LEADING EDGE OF PAD FOR PINS A1 AND "B81".

2.CHAMFER EDGES MUST BE FREE OF CUTTING BURRS.

3.TO THE PCB LAYOUT: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¢X TO THE HORIZONTAL AXIS.THE CENTRE OF DATUM Z.

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SHEET NO.: 2 OF 4

SIZE A3

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MOLEX P/N	HOUSING MATERIAL	HOUSING COLOR	TERMINAL MATERIAL	CONTACT PLATING	SOLDER TAIL PLATING	SOLDER TAI "D" LENGTH	DESCRIPTION	LATCH TYPE
47505-9300	NYLON 46	BLACK	PHOSPHOR BRONZE	GOLD FLASH	100 MICROINCH TIN OVER 50 MICROINCH NICKEL OVER ALL	2.54	TOOLED	FRONT TYPE
47505-9302				15 MICROINCH				
47505-9310		NATURAL(WHITE)		GOLD FLASH				
47505-9312				15 MICROINCH				
47505-9320		BLUE (287U)		GOLD FLASH			UNTOOLED	
47505-9322				15 MICROINCH				
47505-9330		GREEN (348C)		GOLD FLASH				
47505-9332				15 MICROINCH				
47505-9340		PURPLE (2736U)		GOLD FLASH				
47505-9342				15 MICROINCH				
47505-3303		BLACK		GOLD FLASH		3.10	TOOLED	
47505-3305				15 MICROINCH				
47505-3313		NATURAL(WHITE)		GOLD FLASH				
47505-3315				15 MICROINCH				
47505-3323		BLUE (287U)		GOLD FLASH			UNTOOLED	
47505-3325				15 MICROINCH				
47505-3333		GREEN (348C)		GOLD FLASH				
47505-3335				15 MICROINCH				
47505-3343		PURPLE (2736U)		GOLD FLASH				
47505-3345				15 MICROINCH				

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SHEET NO.: 3 OF 4

SIZE: A3

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47505-8300	NYLON 46	BLACK	PHOSPHOR BRONZE	GOLD FLASH	100 MICROINCH TIN OVER 50 MICROINCH NICKEL OVER ALL	2.54	TOOLED	BACK TYPE
47505-8302				15 MICROINCH				
47505-8310		NATURAL(WHITE)		GOLD FLASH				
47505-8312				15 MICROINCH				
47505-8320		BLUE (287U)		GOLD FLASH			UNTOOLED	
47505-8322				15 MICROINCH				
47505-8330		GREEN (348C)		GOLD FLASH				
47505-8332				15 MICROINCH				
47505-8340		PURPLE (2736U)		GOLD FLASH				
47505-8342				15 MICROINCH				
47505-4303		BLACK		GOLD FLASH		3.10	TOOLED	
47505-4305				15 MICROINCH				
47505-4313		NATURAL(WHITE)		GOLD FLASH				
47505-4315				15 MICROINCH				
47505-4323		BLUE (287U)		GOLD FLASH			UNTOOLED	
47505-4325				15 MICROINCH				
47505-4333		GREEN (348C)		GOLD FLASH				
47505-4335				15 MICROINCH				
47505-4343		PURPLE (2736U)		GOLD FLASH				
47505-4345				15 MICROINCH				

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