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Part Number: 0749603018
Status: Active
Overview: tdp_triad_differential_pair
Description: 1.27mm (.050") Pitch TDP® (Triad® Differential Pair) PCIe x 1 Receptacle, Right Angle, Surface Mount, with PCB Press-Fit Pegs, 18 Circuits



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-74960-000 (PDF)
- RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	I/O Connectors
Series	74960
Application	Wire-to-Board
Component Type	Receptacle
MolexKits	Yes
Overview	tdp_triad_differential_pair
Product Name	PCI Express*, TDP®
Type	N/A

Physical

Circuits (Loaded)	18
Circuits (maximum)	18
Color - Resin	Black
Flammability	94V-0
Lock to Mating Part	Yes
Material - Metal	Beryllium Copper
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Panel Mount	Yes
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to Mating Part	Yes
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-20°C to +85°C
Termination Interface: Style	Surface Mount
Wire Size AWG	N/A

Electrical

Current - Maximum per Contact	1.5A
Grounding to Panel	Screw Hole
Shielded	Yes
Voltage - Maximum	40V

EU RoHS
RoHS Compliant by Exemption
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Halogen-Free

China RoHS
50
Pb

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
74960Series

Mates With
75000 Plug

Use With
74962 Jack Posts

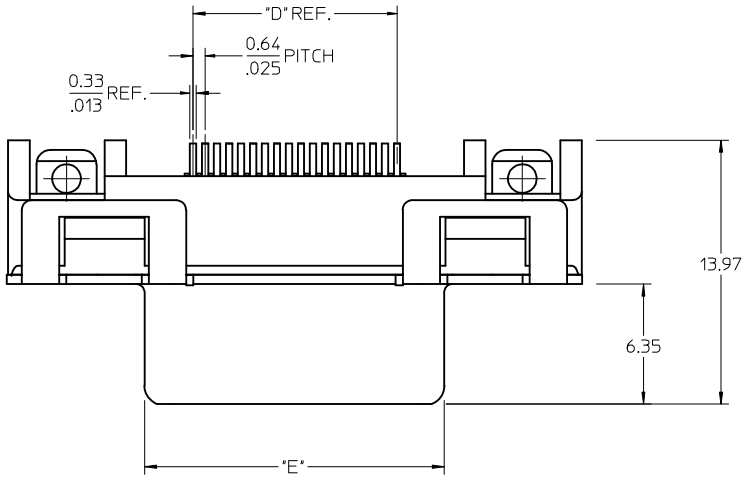
Material Info

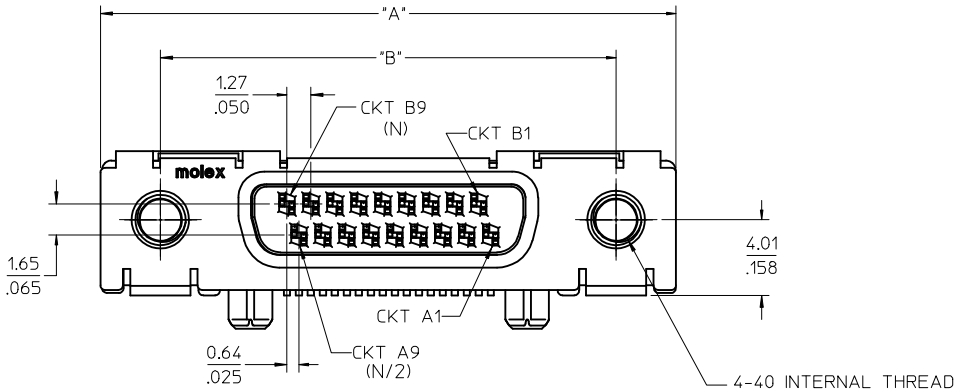
Reference - Drawing Numbers

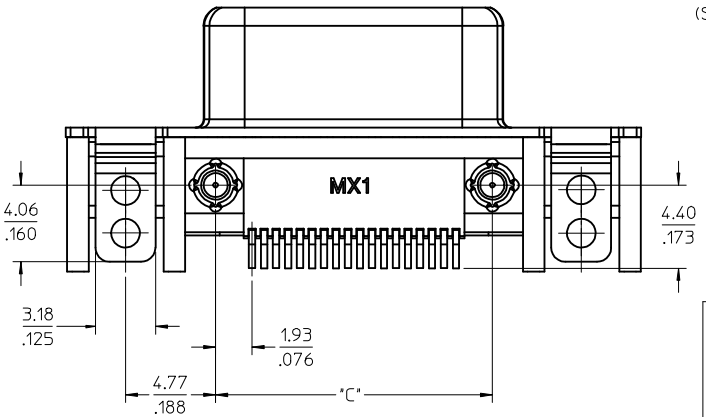
Application Specification	AS-74960-100
Packaging Specification	PK-74960-995
Product Specification	PS-74960-000
Sales Drawing	SD-74960-010

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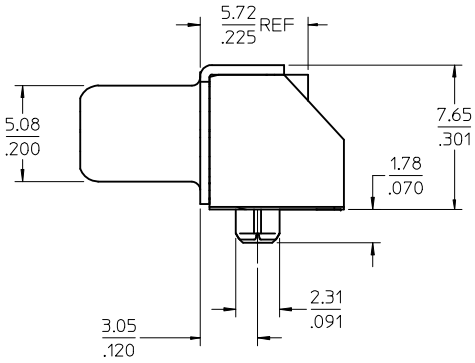






NOTES:

1. MATERIALS:
   SHIELD - DEEP DRAWN STEEL
   HOUSING - GLASS FILLED POLYMER, BLACK, UL 94V-0
   CONTACTS - COPPER ALLOY
2. PLATING:
   TERMINALS - SELECTIVE GOLD (Au) THICKNESS IN CONTACT AREA,
   0.38 MICROMETERS/15 MICROINCHES MINIMUM;
   SELECTIVE MATTE TIN (Sn) THICKNESS IN PC TAIL AREA;
   2.54 MICROMETERS/100 MICROINCHES MINIMUM;
   OVER NICKEL (Ni) UNDERPLATE OVERALL.
   SHIELD - 2.54 MICROMETERS/100 MICROINCHES MINIMUM MATTE TIN (Sn)
   OVER 1.27 MICROMETERS/50 MICROINCHES MINIMUM NICKEL (Ni)
   OVER COPPER (Cu) UNDERPLATE OVERALL.
3. PC SMT TAILS AND 2 GROUND TABS ARE TO BE COPLANAR WITHIN 0.127/.005.
4. PARTS TO BE PACKAGED IN TAPE AND REEL. SEE CHART ON SHEET 2 FOR PACKAGING SPECIFICATION.
5. REFER TO SHEET 2 FOR RECOMMENDED PCB LAYOUT AND PANEL CUT-OUT.
6. RECOMMENDED JACK POST MOUNTING HARDWARE (QTY 2 PER ASSEMBLY), SEE CHART FOR ITEM NUMBERS AND SALES DRAWING SD-74962-000.
7. PRODUCT CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74960-000.
8. FOR TDP RECEPTACLE WITH M3 INTERNAL THREAD OPTION CONTACT PRODUCT MARKETING.



REVISED PIN OUT
EC NO: UCP2009-3097
DRWN: JJANTELEZ 6/22/09
CHKD: 2009/08/14
APPR: MBANAKIS 2009/08/14
DESCRIPTION
C
REV

QUALITY SYMBOLS
▼ - 0
Ⓒ - 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE 5:1 | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY
DIMENSION STYLE MM/IN
DRAWN BY JJANTELEZ DATE 07/15/2008
CHECKED BY TMCCLELL DATE 07/15/2008
APPROVED BY BANAKIS DATE 07/15/2008

TITLE
SALES DRAWING - PCIE/TDP
SMT RECEPTACLE ASSEMBLY

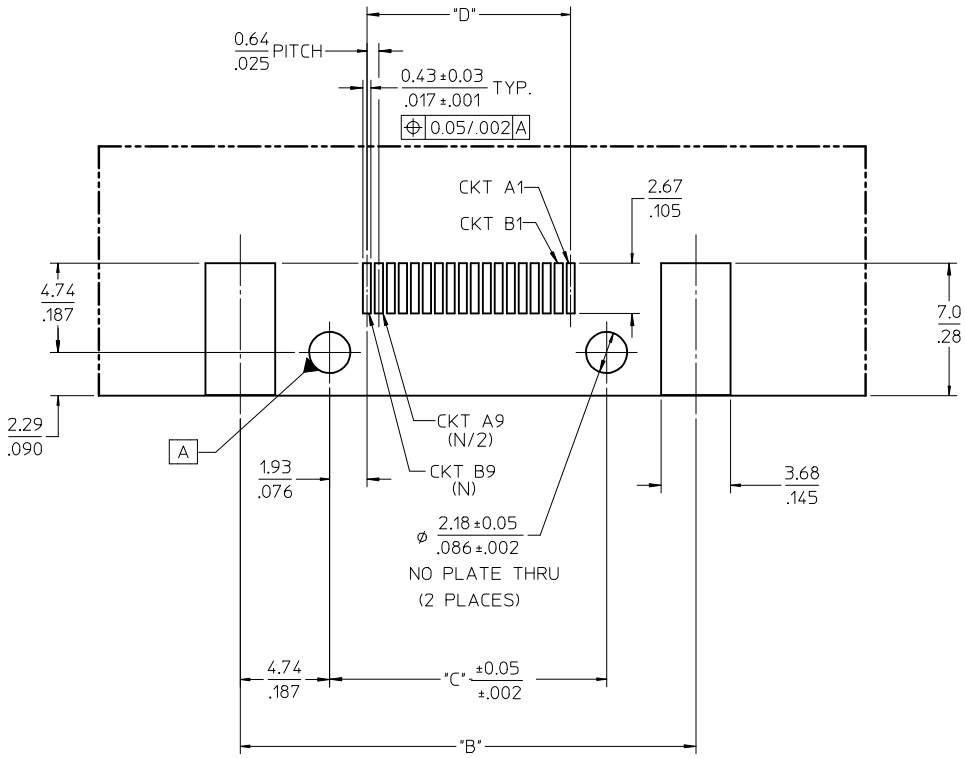
MOLEX INCORPORATED

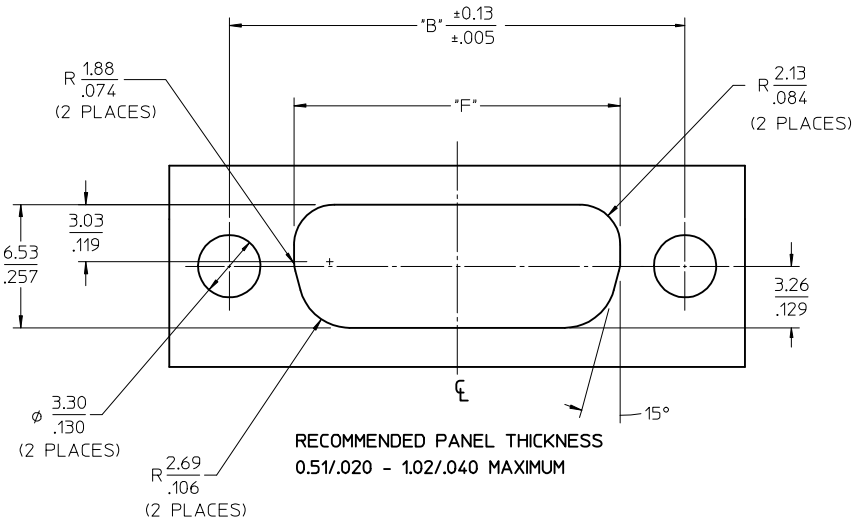
MATERIAL NO. SEE CHART | DOCUMENT NO. SD-74960-010 | SHEET NO. 1 OF 2

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

C

NOTES:
1. ALL DIMENSIONS ON THIS SHEET ARE ±0.13/.005 TOLERANCE UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS SHOWN ABOUT A CENTERLINE ARE SYMMERTICAL ABOUT THAT CENTERLINE WITHIN HALF THE SPECIFIED TOLERANCE.

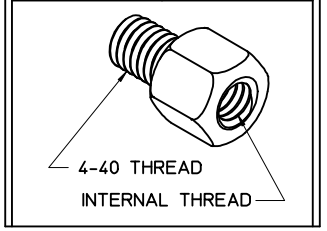




NOT TOOLED	MATERIAL NUMBER	CIRCUIT SIZE	"A" DIMENSION	"B" DIMENSION	"C" DIMENSION	"D" DIMENSION	"E" DIMENSION	"F" DIMENSION	PACKAGING SPECIFICATION	
	74960-3018	18	30.48 / 1.200	24.13 / .950	14.66 / .577	10.80 / .425	15.87 / .625	17.27 / .680	PK-74960-995	
	74960-3028	28	36.83 / 1.450	30.48 / 1.200	21.01 / .827	17.15 / .675	22.17 / .873	23.62 / .930	PK-74960-995	
X	74960-3038	38	43.18 / 1.700	36.83 / 1.450	27.36 / 1.077	23.50 / .925	28.52 / 1.123	29.97 / 1.180	N/A	CONTACT PRODUCT MARKETING
	74960-3048	48	49.53 / 1.950	43.18 / 1.700	33.71 / 1.327	29.85 / 1.175	34.87 / 1.373	36.32 / 1.430	PK-74960-996	
X	74960-3072	72	64.77 / 2.550	58.42 / 2.300	48.95 / 1.927	45.09 / 1.775	50.11 / 1.973	51.56 / 2.030	N/A	CONTACT PRODUCT MARKETING

RECOMMENDED JACKPOST INTERNAL THREAD OPTIONS (SEE NOTE 6 ON SHEET 1)

4-40	M3
74962-0001	74962-0002



SEE SHEET 1
EC NO: UCP2009-3097 6/22/09
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CH'KD:
APPR: MBANAKIS 2009/08/14
DESCRIPTION
REV
C

QUALITY SYMBOLS
▼ - 0
Ⓒ - 0

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SCALE 5:1 | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY
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CHECKED BY TMCCLELL DATE 07/15/2008
APPROVED BY BANAKIS DATE 07/15/2008
TITLE: SALES DRAWING - PCIE/TDP SMT RECEPTACLE ASSEMBLY
molex MOLEX INCORPORATED
MATERIAL NO. SEE CHART | DOCUMENT NO. SD-74960-010 | SHEET NO. 2 OF 2

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