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Part Number: [0749603048](#)
Status: **Active**
Overview: [tdp_triad_differential_pair](#)
Description: 1.27mm (.050") Pitch TDP® (Triad® Differential Pair) Receptacle, Right Angle, Surface Mount, with PCB Press-Fit Pegs, 48 Circuits

Documents:
[3D Model](#) [Product Specification PS-74960-000 \(PDF\)](#)
[Drawing \(PDF\)](#) [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 TDP®
Type N/A

Physical

Circuits (Loaded) 48
Circuits (maximum) 48
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



image - Reference only

Series

EU RoHS

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

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
[74960Series](#)

Mates With
[75000 Plug](#)

Use With
[74962 Jack Posts](#)

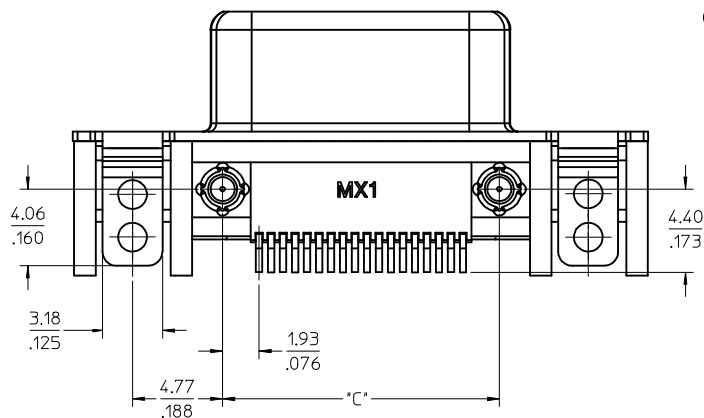
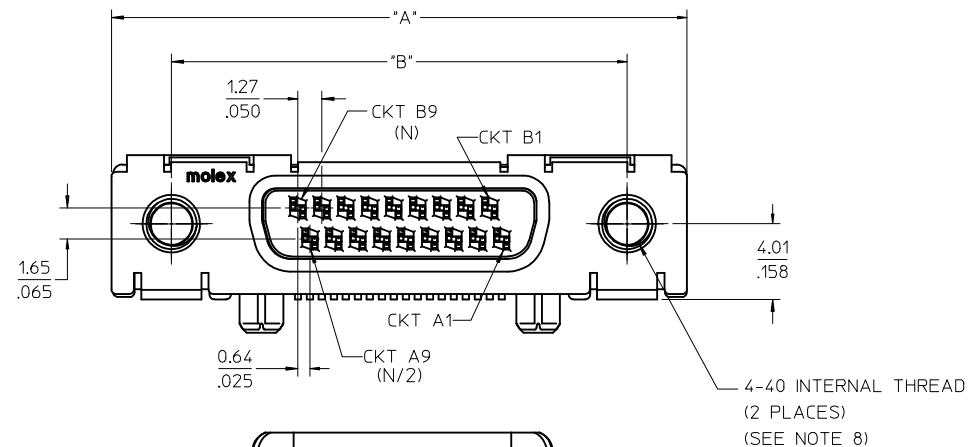
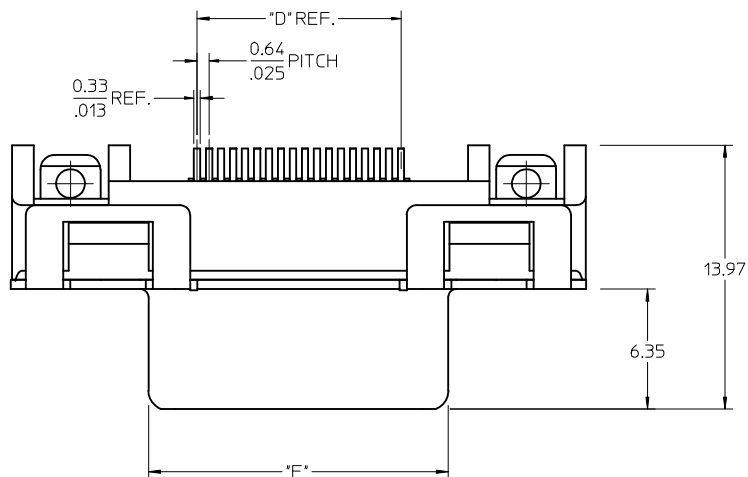
Material Info

Reference - Drawing Numbers

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

This document was generated on 06/07/2010

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NOTES:

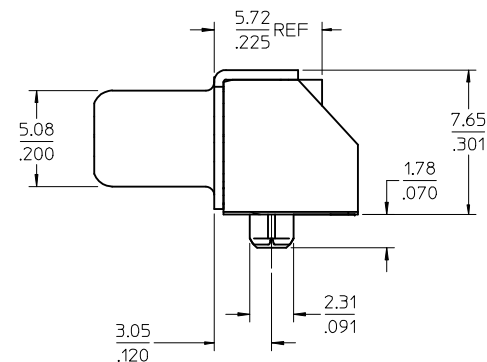
1. MATERIALS:

SHIELD - DEEP DRAWN STEEL
HOUSING - GLASS FILLED POLYMER, BLACK, UL 94V-0
CONTACTS - COPPER ALLOY

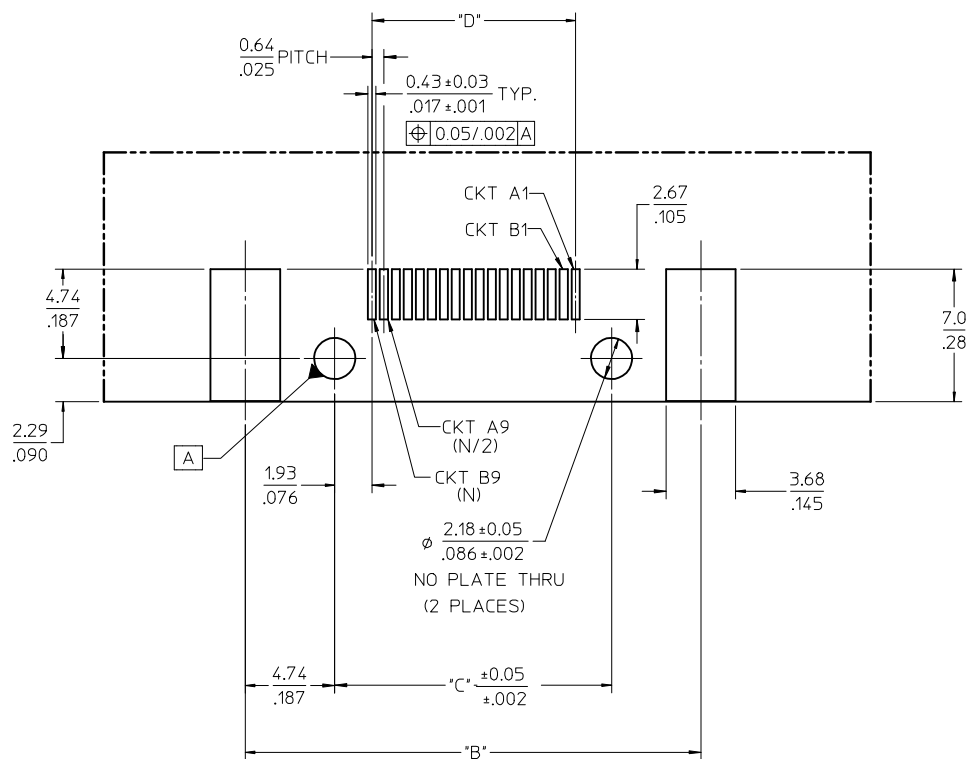
2. PLATING:

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.

- PC SMT TAILS AND 2 GROUND TABS ARE TO BE COPLANAR WITHIN 0.127/.005.
- PARTS TO BE PACKAGED IN TAPE AND REEL. SEE CHART ON SHEET 2 FOR PACKAGING SPECIFICATION.
- REFER TO SHEET 2 FOR RECOMMENDED PCB LAYOUT AND PANEL CUT-OUT.
- RECOMMENDED JACK POST MOUNTING HARDWARE (QTY 2 PER ASSEMBLY), SEE CHART FOR ITEM NUMBERS AND SALES DRAWING SD-74962-000.
- PRODUCT CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74960-000.
- FOR TDP RECEPTACLE WITH M3 INTERNAL THREAD OPTION CONTACT PRODUCT MARKETING.

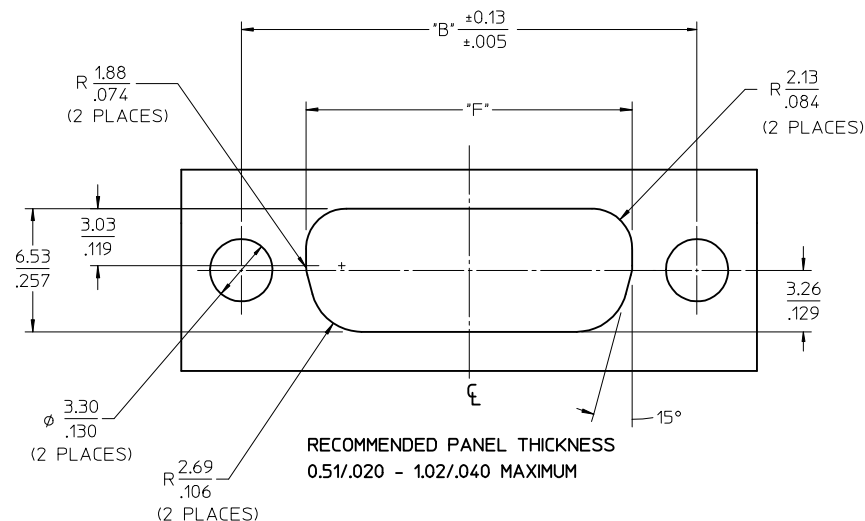


REVISED PIN OUT EC NO: UCP2009-3097 DRWN: JJANTELEZ 6/22/09 CHKD: 2009/08/14 APPR: MBANAKIS 2009/08/14	DESCRIPTION	QUALITY SYMBOLS ▽ = 0 ▽C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			SCALE 5:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		REVISE ON CAD ONLY		
			mm		INCH	DIMENSION STYLE		TITLE SALES DRAWING - PCIE/TDP SMT RECEPTACLE ASSEMBLY				
						MM/IN						
			4 PLACES ± ---		± ---	DRAWN BY		DATE	MOLEX INCORPORATED			
			3 PLACES ± ---		± .010	JJANTELEZ		07/15/2008				
2 PLACES ± 0.25		± .015	CHECKED BY		DATE							
REV			1 PLACE ± 0.38		± ---	TMCCLELL		07/15/2008	MATERIAL NO. SEE CHART			
			ANGULAR ± 1/2°		APPROVED BY		DATE	DOCUMENT NO. SD-74960-010		SHEET NO. 1 OF 2		
			BANAKIS		07/15/2008		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			DRAFT WHERE APPLICABLE									
			MUST REMAIN WITHIN DIMENSIONS									

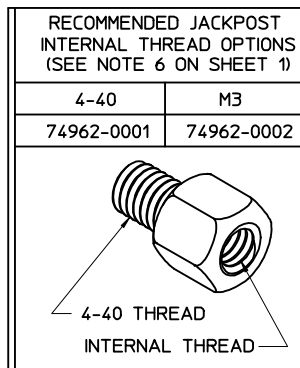


NOTES:

1. ALL DIMENSIONS ON THIS SHEET ARE ±0.13/0.005 TOLERANCE UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS SHOWN ABOUT A CENTERLINE ARE SYMMETRICAL 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



SEE SHEET 1 EC NO: UCP2009-3097 DRWN: JIANTELEZ 6/22/09 CHKD: 2009/08/14 APPR: MBANAKIS 2009/08/14	DESCRIPTION	QUALITY SYMBOLS ▽ - 0 ▽ - 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			SCALE 5:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		REVISE ON CAD ONLY	
				mm	INCH	DIMENSION STYLE MM/IN		TITLE SALES DRAWING - PCIE/TDP SMT RECEPTACLE ASSEMBLY			
			4 PLACES	± ---	± ---	DRAWN BY DATE					
			3 PLACES	± ---	± .010	JIANTELEZ 07/15/2008					
			2 PLACES	± 0.25	± .015	CHECKED BY DATE					
			1 PLACE	± 0.38	± ---	TMCLELL 07/15/2008		molex MOLEX INCORPORATED			
			ANGULAR ±1/2°			APPROVED BY DATE		MATERIAL NO.		DOCUMENT NO.	SHEET NO.
			DRAFT WHERE APPLICABLE			BANAKIS 07/15/2008		SEE CHART		SD-74960-010	2 OF 2
	REV		MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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