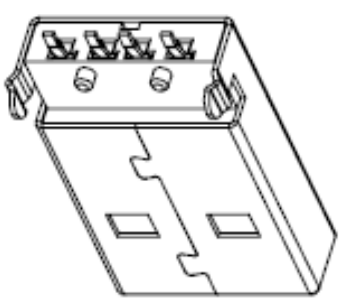
This document was generated on 02/02/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0480372000

Status: Active

Description: Universal Serial Bus (USB) Shielded I/O Plug, Type A, Right Angle, Surface Mount, 0.76µm (30µ") Gold (Au) Plating, PCB Thickness 1.20mm (.047") to 1.60mm (.063"), Tape on Reel Package, Lead Free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	I/O Connectors
Series	48037
Application	Wire-to-Board
Component Type	Plug
Product Name	USB
Type	A

Physical

Boot Color	N/A
Circuits (Loaded)	4
Circuits (maximum)	4
Gender	Plug
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	1
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.047 In, 0.062 In
PCB Thickness Recommended (mm)	1.20 mm, 1.60 mm
Packaging Type	Embossed Tape on Reel
Panel Mount	Yes
Pitch - Mating Interface (in)	0.078 In, 0.098 In
Pitch - Mating Interface (mm)	2.00 mm, 2.50 mm
Pitch - Term. Interface (in)	0.078 In, 0.098 In
Pitch - Term. Interface (mm)	2.00 mm, 2.50 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-20°C to +85°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No

Electrical

Current - Maximum	1.5A
Shield Type	Full Shield
Shielded	Yes
Voltage - Maximum	150V AC (RMS)

Solder Process Data

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
48037Series

Mates With
USB Type A Receptacle

Max. Cycles at Max. Process Temperature	10
Process Temperature max. C	260

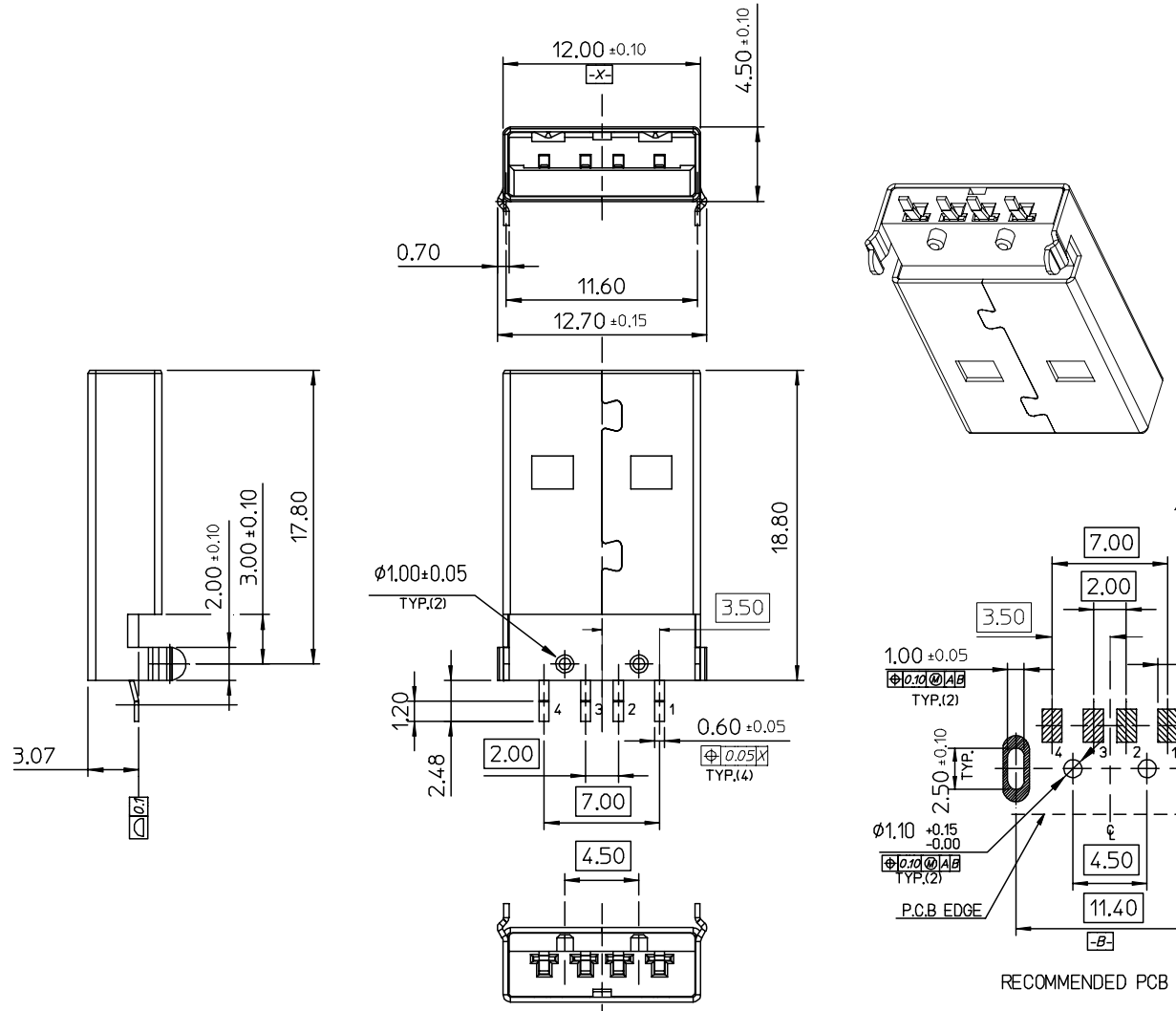
Material Info

Reference - Drawing Numbers

Sales Drawing	SD-48037-002

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NOTES:

1.MATERIAL:
SHELL: SPCC
HOUSING: THERMOPLASTIC, GLASS FIBER FILLED.
UL 94V-0 RATED.COLOR BLACK.
CONTACT: BRASS

C 2.PLATING:
TERMINAL:
CONTACT AREA:GOLD(Au)
THICKNESS=30 MICROINCH MINIMUM.
SOLDER TAIL:TIN(Sn), ALLOY,
THICKNESS=120 MICROINCH MINIMUM.
UNDER PLATED:NICKEL(Ni),THICKNESS=50 MICROINCH MINIMUM.
METAL SHELL:
NICKEL(Ni),THICKNESS=120 MICROINCH MINIMUM.
UNDER PLATE: COPPER(Cu), THICKNESS=50 MICROINCH MINIMUM.

3.RECOMMENDED PCB THICKNESS:1.20~1.60mm

4.PRODUCT SPECIFICATION:REFER TO PS-48037-001

C 5.PACKAGE SPECIFICATION:SEE TABLE

6.TEST SUMMARY :REFER TO TS-48037-001

RECOMMENDED PCB LAYOUT

C

48037-2000	T&R	PK-48037-200	
48037-1000	TRAY	PK-48037-001	
MOLEX P/N	PACKAGE	PACKAGE SPEC.	REMARK

ADD NEW P/N AND UPDATE PLATING SPEC.	RTM	DESCRIPTION
EC NO.SH2005-0163	EC NO.T2004-0067	
DRWN: KEVIN CHANG	DRWN: KEVIN CHANG	
CHK:	CHK: SAM SHIN	
APPR:	APPR:ERICK LAN	
C	B	REV

QUALITY SYMBOLS
MAJOR ▼ =0
CRITICAL C =0

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	\ .	\.
3 PLACES	\ .	\.
2 PLACES	±0.25	±0.010
1 PLACE	±0.25	±0.010

ANGULAR: ±3°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE | DESIGN UNITS ☒ mm ☐INCH

THIRD ANGLE PROJECTION

DIMENSIONS: ☐ mm/INCH ☐ INCH/mm ☒ mm ONLY

SHT | REV

REVISE ON CAD ONLY

DRAWN BY & DATE: COLIN DUAN 030822
CHECKED BY & DATE: SAM SHIN 030822
APPROVED BY & DATE: WILSON CHANG 030822
CAD FILENAME: S4803702.MI

TITLE: USB A TYPE PLUG R/A CONNECTOR(SMT)

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DRAWING NO.: SD-48037-002
SHEET NO.: 1 OF 1

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

SIZE A3

DO NOT SCALE DRAWING | CADFILE NO. | SIMILAR ITEM | EDP NO. | ENG. NO:

GC.DGN REV A
96/06/12 LEVEL 3