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Part Number:

1051311000

Status:

Active

Overview:

esatausb_combo_receptacles

Description:

Combo External Serial ATA and USB Receptacles, Right Angle, Through Hole, with SMT type Front Solder Tabs, Reverse Mount on Recessed PCB, Lead free

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	I/O Connectors
Series	105131
Application	Wire-to-Board
Comments	SMT type front solder tabs . Reverse mounted on recessed PCB . Durability: 1,500 cycles for USB; 2,500 cycles for eSATA
Component Type	Receptacle
Overview	esatausb_combo_receptacles
Product Name	eSATA/USB Combo, External Serial ATA, USB
Type	N/A
Physical	
Circuits (Loaded)	4, 7
Circuits Detail	eSATA: 7 circuits; USB: 4 circuits
Color - Resin	Black
Durability (mating cycles max)	1,500
Gender	Male
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.047 In
PCB Thickness Recommended (mm)	1.20 mm
Packaging Type	Embossed Tape on Reel
Panel Mount	Yes
Pitch - Mating Interface (in)	0.050 In, 0.079 In, 0.098 In
Pitch - Mating Interface (mm)	1.27 mm, 2.00 mm, 2.50 mm
Pitch - Term. Interface (in)	0.050 In, 0.079 In, 0.098 In
Pitch - Term. Interface (mm)	1.27 mm, 2.00 mm, 2.50 mm
Plating min: Mating (µin)	2
Plating min: Mating (µm)	0.05
Plating min: Termination (µin)	80
Plating min: Termination (µm)	2
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Temperature Range - Operating	-35°C to +85°C
Termination Interface: Style	Through Hole

Electrical



image - Reference only

Series

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
[105131Series](#)

Mates With
External Serial ATA Cable Assembly or USB Type A Cable Assembly

Current - Maximum per Contact	1.5A
Grounding to Panel	Yes
Shield Type	Full Shield
Shielded	Yes
Voltage - Maximum	15V DC

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-105131-001
Sales Drawing	SD-105131-100

This document was generated on 05/31/2010

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10 9 8 7 6 5 4 3 2 1

F

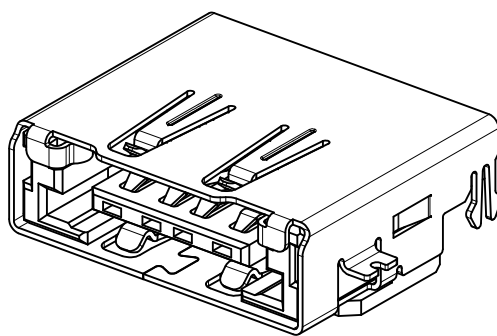
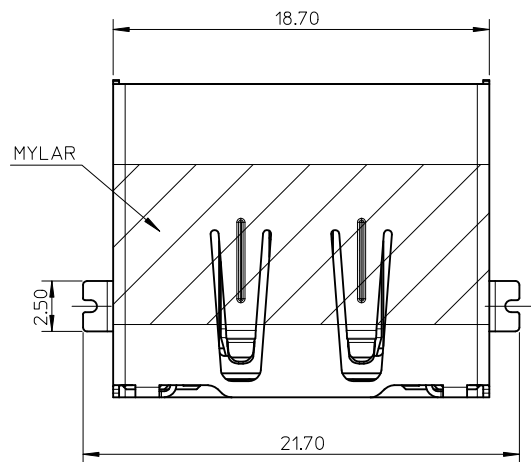
E

D

C

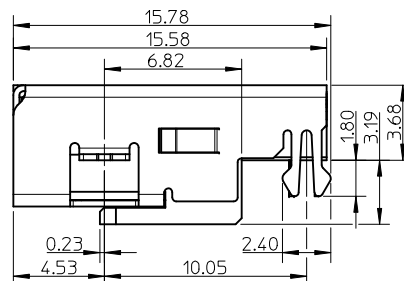
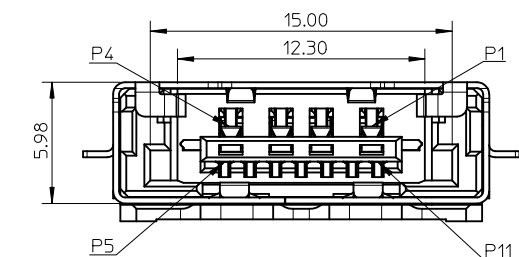
B

A



NOTES:

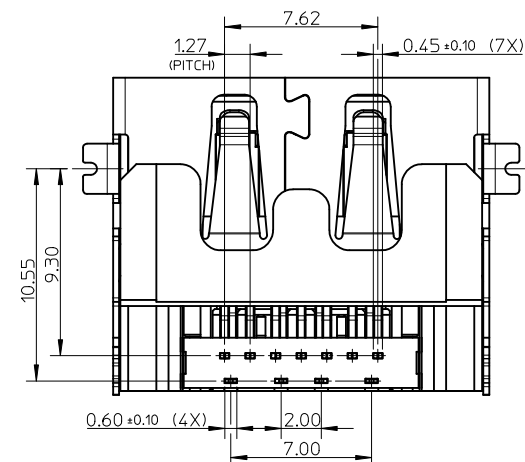
1. MATERIAL:
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, 30% GLASS FILLED, BLACK, UL94V-0.
TERMINAL-1: COPPER ALLOY.
TERMINAL-2: COPPER ALLOY.
METAL SHELL: METAL.
2. TERMINAL PLATING:
CONTACT AREA: GOLD PLATING.
SOLDER AREA: TIN PLATING, 2.0 MICROMETERS MINIMUM.
UNDER PLATING: NICKEL PLATING, 2.0 MICROMETERS MINIMUM.
3. METAL SHELL PLATING: SOLDERABLE NICKEL PLATING.
4. PRODUCT SPECIFICATION: PS-47403-001.
5. PACKAGE SPECIFICATION: PK-105131-001.
6. PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC.



PIN ASSIGNMENT

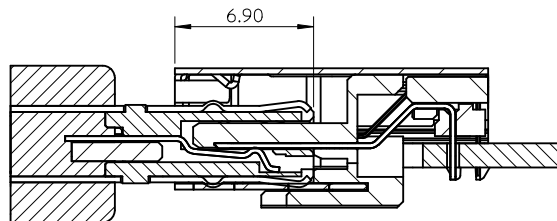
USB		I/O SATA	
NAME	TYPE	NAME	TYPE
P1	VBUS	P5	GND
P2	D-	P6	A+
P3	D+	P7	A-
P4	GND	P8	GND
		P9	B-
		P10	B+
		P11	GND

105131-1002	0.76 MICROMETRE MIN. GOLD
105131-1001	0.38 MICROMETRE MIN. GOLD
105131-1000	GOLD FLASH
P/N	CONTACT AREA PLATING

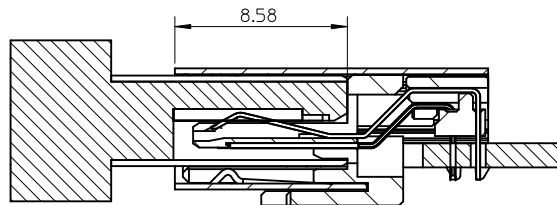


NEW RELEASE EC NO: SH2010-0386 DRWN:XQZHANG CHKD:GLL APPR:XJSONG	DESCRIPTION REV	QUALITY SYMBOLS F_A=0 F_C=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION				
			DRAWN BY XQZHANG CHECKED BY XJSONG APPROVED BY XJSONG MATERIAL NO.	DATE 2009/10/09 2009/10/09 2010/04/07	TITLE SALES DRAWING FOR COMBO OF EXTERNAL SATA AND USB REVERSE TYPE								
										mm		INCH	
										4 PLACES	±---	±---	
										3 PLACES	±---	±---	
2 PLACES	± 0.25	±---											
1 PLACE	± 0.25	±---											
ANGULAR ± 3 °		SEE TABLE		SD-105131-100		SHEET NO. 1 OF 2							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

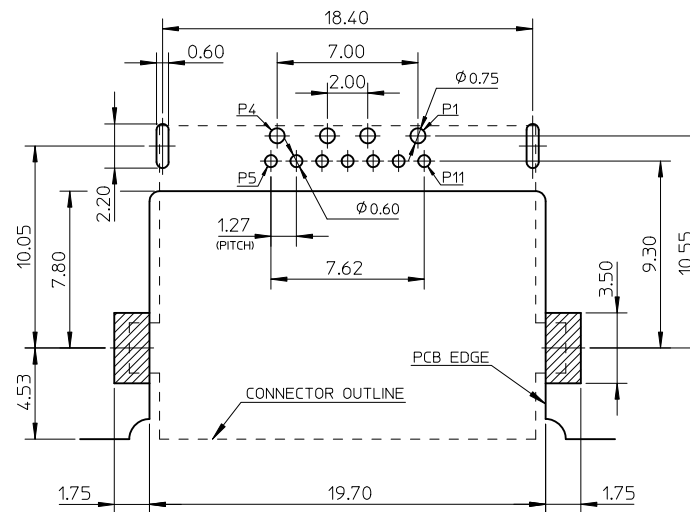
9 8 7 6 5 4 3 2 1



MATING WITH ESATA



MATING WITH USB



RECOMMEND PCB LAYOUT T=1.20

PCB TOLERANCE : ± 0.05

SEE SHEET 1 EC NO: SH2010-0386 DRWN:XQZHANG CHKD:GLLI APPR:XJSONG	DESCRIPTION REV	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm INCH		DRAWN BY	DATE	TITLE SALES DRAWING FOR COMBO OF EXTERNAL SATA AND USB REVERSE TYPE				
			4 PLACES	$\pm$ ---	$\pm$ ---	XQZHANG					2009/10/09
			3 PLACES	$\pm$ ---	$\pm$ ---	CHECKED BY					DATE
			2 PLACES	± 0.25	$\pm$ ---	XJSONG	2009/10/09	MOLEX INCORPORATED			
			1 PLACE	± 0.25	$\pm$ ---	APPROVED BY	DATE				
			ANGULAR $\pm 3^\circ$		XJSONG	2010/04/07					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					SEE SHEET 1		SD-105131-100		2 OF 2		
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				