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Part Number:

1051271001

Status:

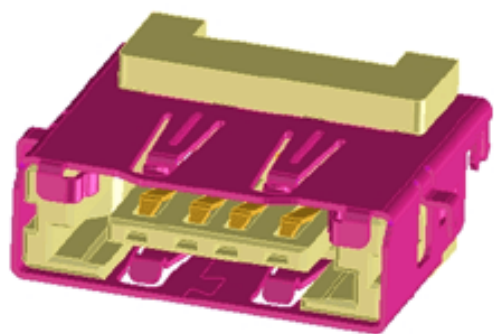
Active

Overview:

esatausb_combo_receptacles

Description:

Combo External Serial ATA and USB Receptacles, Right Angle, Through hole, Bottom mount, Sink type, with Stand-off, Lead free



Series

image - Reference only

Documents:

- [Drawing \(PDF\)](#)
- [Product Specification PS-47403-001 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	I/O Connectors
Series	105127
Application	Wire-to-Board
Comments	With Stand-off, 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)	15
Plating min: Mating (µm)	0.38
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

EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
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
105127Series

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

Electrical

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

Material Info

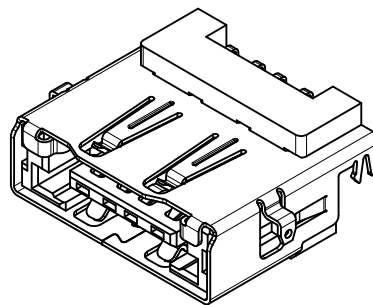
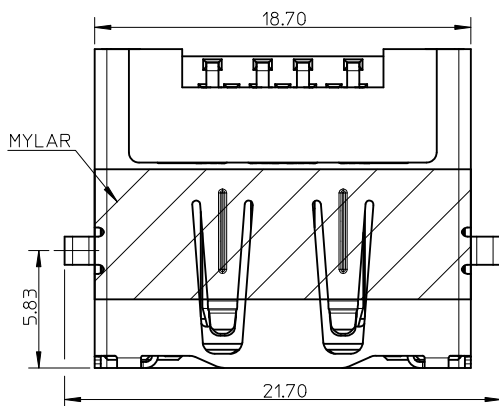
Reference - Drawing Numbers

Packaging Specification	PK-105127-001
Product Specification	PS-47403-001
Sales Drawing	SD-105127-100

This document was generated on 05/31/2010

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10 9 8 7 6 5 4 3 2 1



NOTES:

1. MATERIAL:

HOUSING: HIGH TEMPERATURE THERMOPLASTIC, 30% GLASS FILLED, BLACK, UL94V-0.

TAIL GUIDER: 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. DETAIL SEE TABLE;

SOLDER AREA: 2.0 MICROMETRE MINIMUM TIN PLATING;

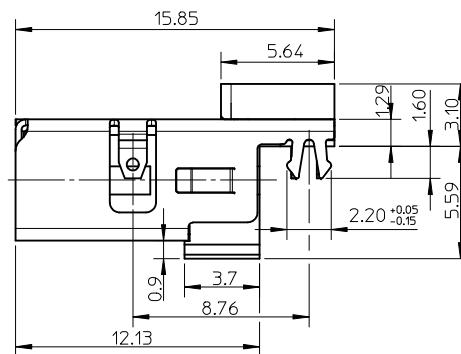
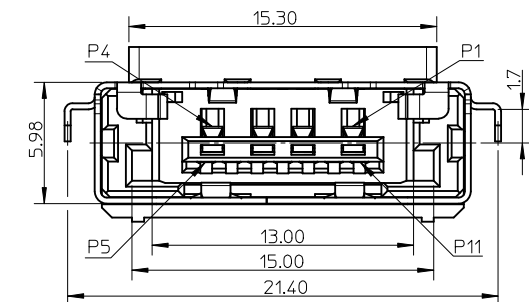
UNDER PLATING: 1.27 MICROMETRE MINIMUM NICKEL PLATING.

3. METAL SHELL PLATING: SOLDERABLE NICKEL PLATING.

4. PRODUCT SPECIFICATION: PS-47403-001.

5. PACKAGE SPECIFICATION: PK-105127-001.

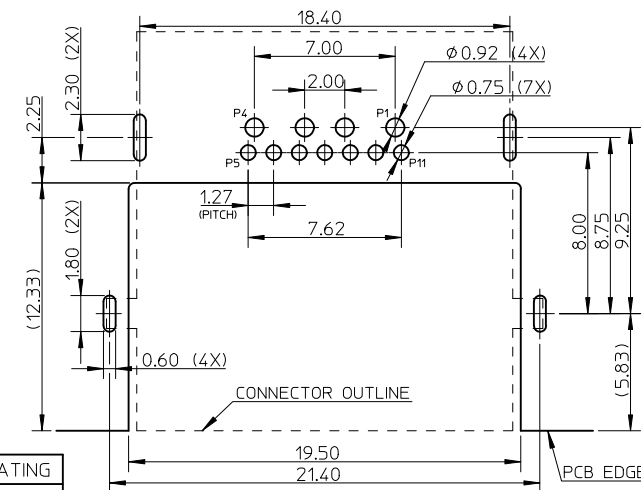
6. PRODUCT COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC.



PIN ASSIGNMENT

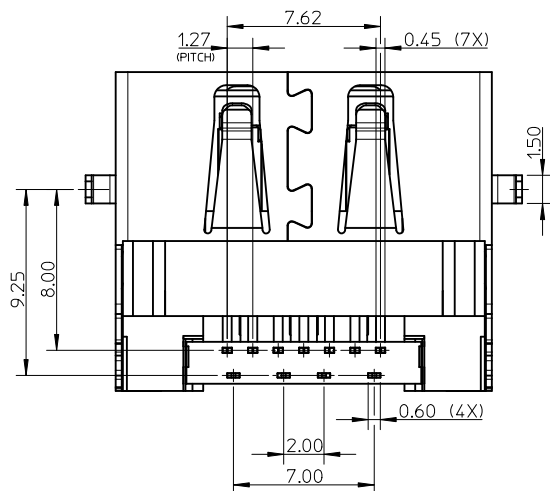
USB		ESATA	
NAME	TYPE	NAME	TYPE
P1	VBUS	P5	GND
P2	D-	P6	A+
P3	D+	P7	A-
P4	GND	P8	GND
		P9	B-
		P10	B+
		P11	GND

105127-1002	0.76 MICROMETRE MIN. GOLD PLATING
105127-1001	0.38 MICROMETRE MIN. GOLD PLATING
105127-1000	GOLD FLASH
P/N	CONTACT AREA PLATING



RECOMMEND PCB LAYOUT, T=1.20mm

PCB TOLERANCE: ±0.05



NEW RELEASE EC NO: SH2010-0328 DRWN:XQZHANG CHKD:GLI APPR:XJSONG REV A	2/2/10	DESCRIPTION REV
	2010/02/04	
	2010/03/05	

QUALITY SYMBOLS
$\nabla_F = 0$
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GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
XQZHANG	2009/08/17
CHECKED BY	DATE
XJSONG	2009/08/17
APPROVED BY	DATE
XJSONG	2010/02/23
MATERIAL NO.	
SEE TABLE	
SIZE	
A3	

SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE		
COMBO ESATA AND USB CONNECTOR		
BOTTOM MOUNT / SINK TYPE		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-105127-100		SHEET NO. 1 OF 1
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