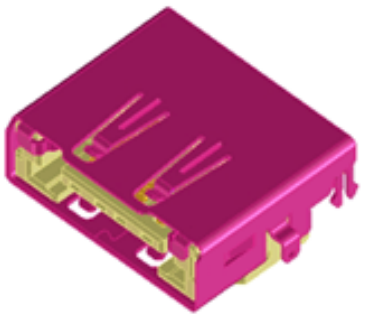
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 1051312000
Status: Active
Overview: esatausb_combo_receptacles
Description: Combo External Serial ATA and USB Receptacles, Right Angle, Through Holewith Through hole type Front Solder Tabs, Reverse Mount on Recessed PCB,Lead free



Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	I/O Connectors
Series	105131
Application	Wire-to-Board
Comments	Through hole 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

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

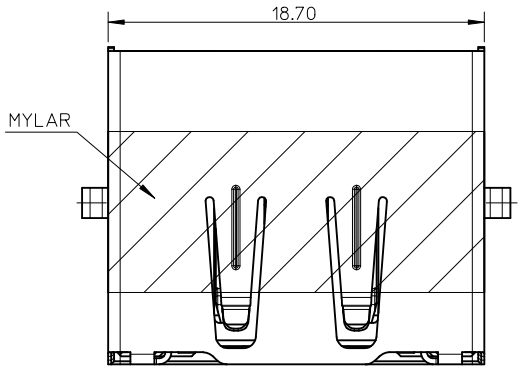
Material Info

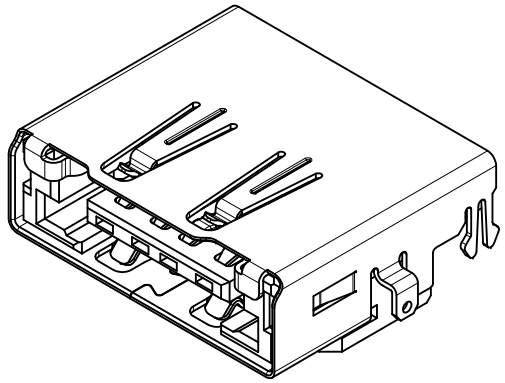
Reference - Drawing Numbers

Sales Drawing	SD-105131-200

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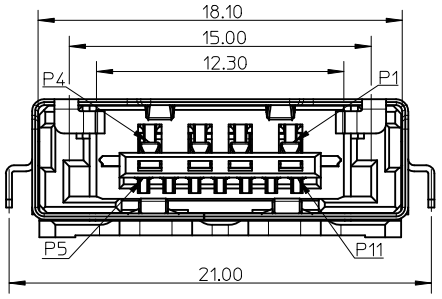
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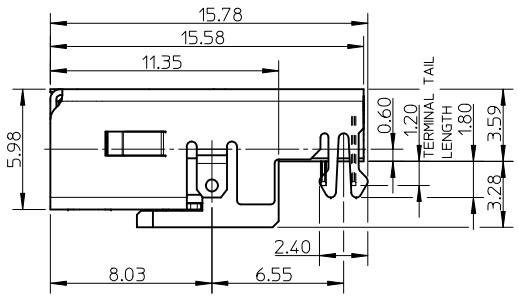




NOTES:

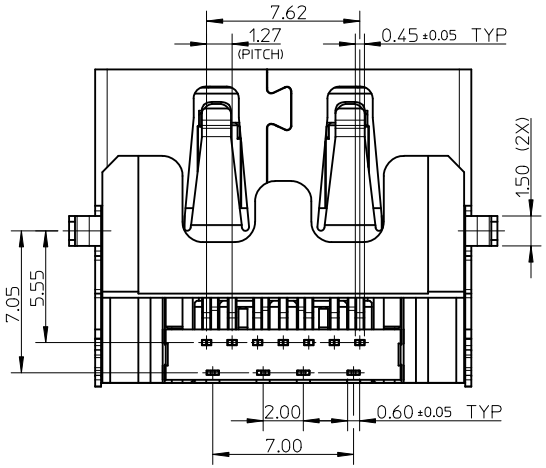
1. MATERIAL:
   HOUSING: HIGH TEMPERATURE THERMOPLASTIC, 30% GLASS FILLED, BLACK, UL94V-0.
   TERMINAL-1: COPPER ALLOY.
   TERMINAL-2: COPPER ALLOY.
   METAL SHELL: METAL.
2. TERMINAL PLATING:
   CONTACT AREA: GOLD PLATING.
   SOLDER AREA: TIN PLATING, 2.0 MICROMETERS MINMUM.
   UNDER PLATING: NICKEL PLATING, 2.0 MICROMETERS MINIMUM.
3. MATAL 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



105131-2002	0.76 MICROMETRE MIN. GOLD
105131-2001	0.38 MICROMETRE MIN. GOLD
105131-2000	GOLD FLASH
P/N	CONTACT AREA PLATING

NEW RELEASE
EC NO: SH2010-0386 2010/04/06
DRWN:XQZHANG 2010/04/06
CH'KD:GLI I 2010/04/21
APPR:XJSONG
DESCRIPTION
A
REV

QUALITY SYMBOLS
F=0
F=0
F=0

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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

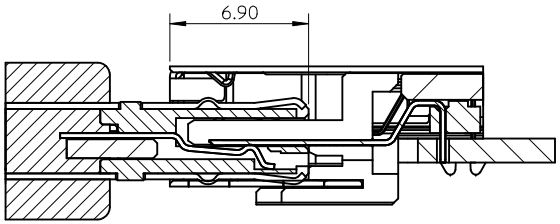
		DATE
DRAWN BY	XQZHANG	2009/12/21
CHECKED BY	XJSONG	2009/12/21
APPROVED BY	XJSONG	2010/04/07

TITLE: SALES DRAWING FOR USB & E-SATA COMBO BOTTOM MOUNT

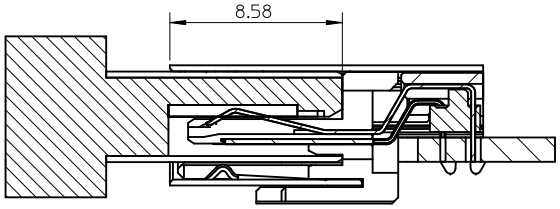
MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-105131-200
SHEET NO.: 1 OF 2
SIZE: A3

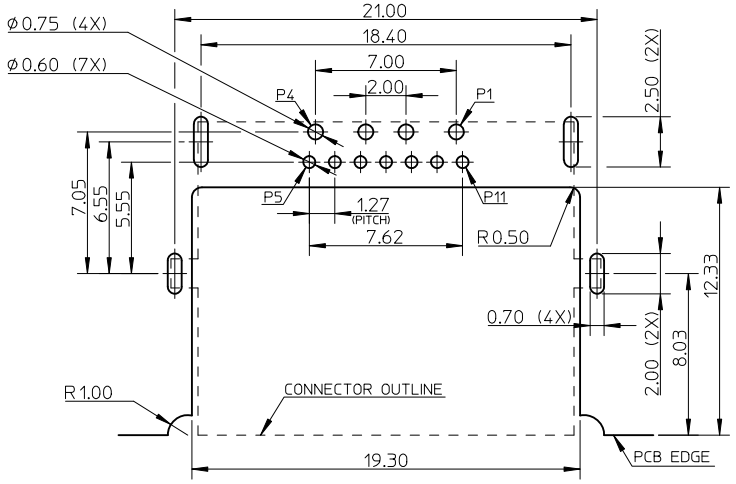
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MATING WITH ESATA



MATING WITH USB



RECOMMEND PCB LAYOUT T=1.20
PCB TOLERANCE: ±0.05

SEE SHEET 1	EC NO: SH2010-0386	DRWN:XQZHANG	2010/04/06
		CH'KD:GLI	2010/04/06
		APPR:XJSONG	2010/04/21
REV	A	DESCRIPTION	

QUALITY SYMBOLS
F_A=0
F_C=0
F_P=0

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
SCALE	1:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	XQZHANG
DATE	2009/12/21
CHECKED BY	XJSONG
DATE	2009/12/21
APPROVED BY	XJSONG
DATE	2010/04/07
MATERIAL NO.	SEE SHEET 1
SIZE	A3

TITLE
SALES DRAWING FOR
USB & E-SATA COMBO
BOTTOM MOUNT

MOLEX INCORPORATED

DOCUMENT NO. SD-105131-200

SHEET NO. 2 OF 2

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