

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0785610004

Status:

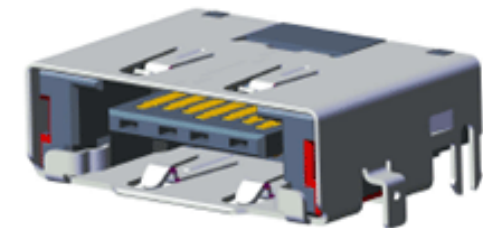
Active

Overview:

esatausb_combo_receptacles

Description:

Combo External Serial ATA and USB Receptacles, Right Angle, Through hole, Top Mount, Sink Type, 1.50mm (.059") Sink Mount Height, Lead free



Series

image - Reference only

Documents:

- [Drawing \(PDF\)](#)
- [Product Specification PS-78561-001 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	I/O Connectors
Series	78561
Application	Wire-to-Board
Comments	Longer hind Forklocks . 1.50mm (.059") Sink Mount Height . Mounted on recessed PCB . Durability: 1,500 cycles for USB; 2,500 cycles for eSATA . Housing is without side slots in mating interface (refer Sales Drawing)
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)	100
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Temperature Range - Operating	-35°C to +85°C

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
78561Series

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

Termination Interface: Style

Through Hole

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

Product Specification

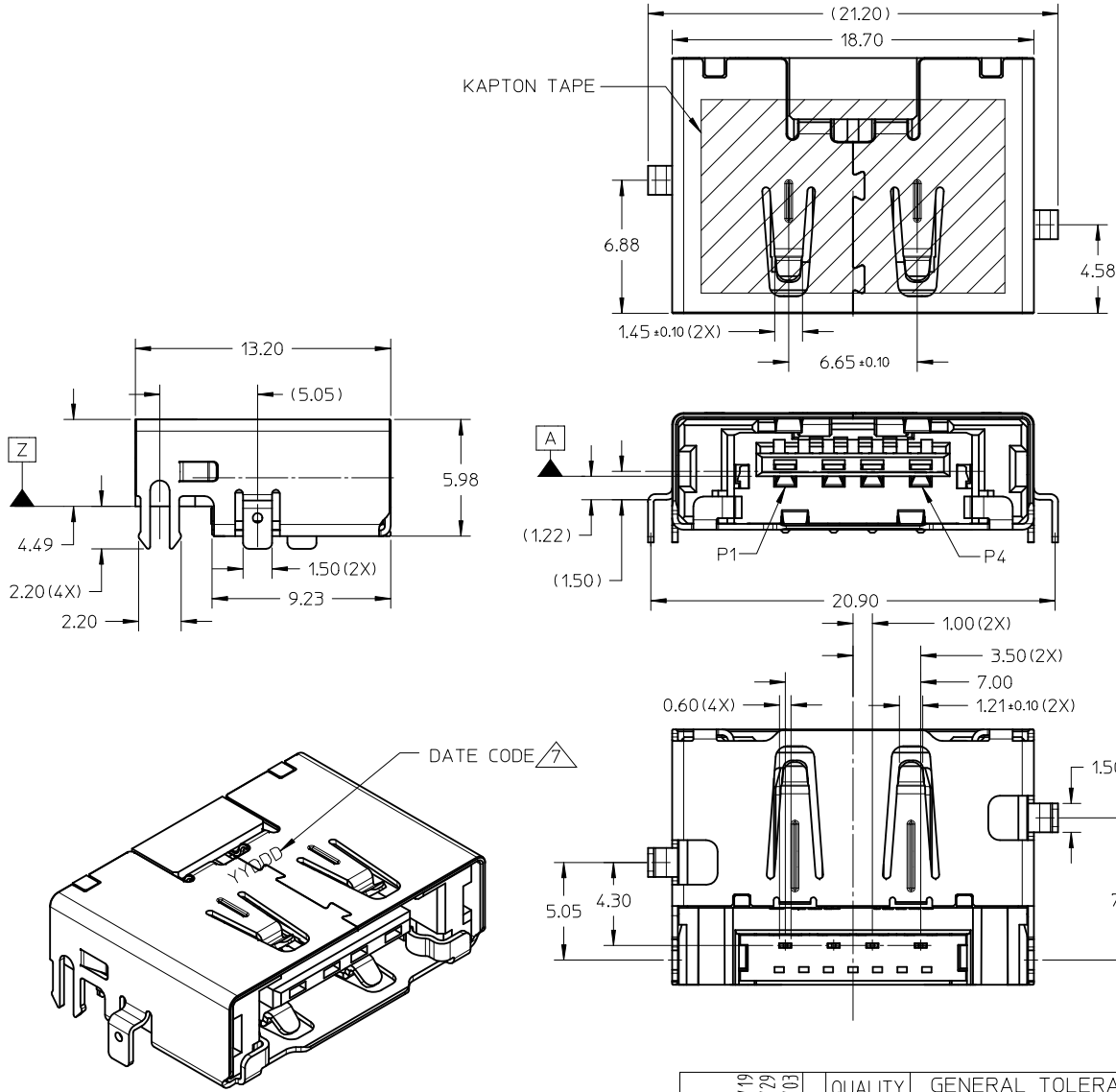
PS-78561-001

Sales Drawing

SD-78561-002

This document was generated on 05/20/2010

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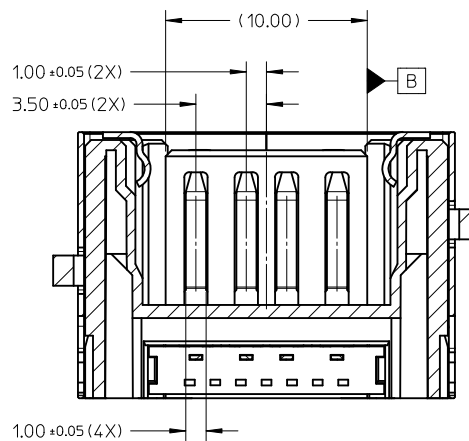
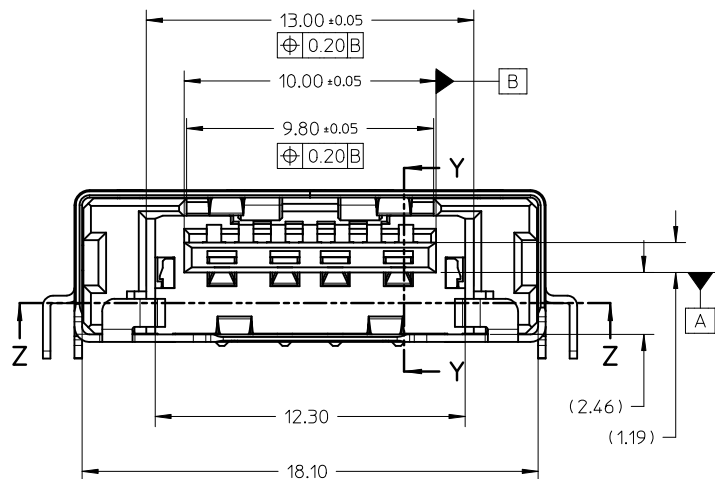
- NOTES:
1. MATERIAL:
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, GLASS FILLED, BLACK, UL94V-0.
BASEPLATE: HIGH TEMPERATURE THERMOPLASTIC, GLASS FILLED, BLACK, UL94V-0.
TERMINAL: COPPER ALLOY.
METAL SHELL: STAINLESS STEEL.
 2. PLATING FINISHES
TERMINAL: SEE TABLE
METAL SHELL PLATING: 127µm MIN SOLDERABLE NICKEL PLATING.
 3. PRODUCT SPECIFICATION: PS-78561-001
 4. PACKAGING SPECIFICATION: PK-78561-001
 5. MATES WITH TYPICAL USB COMPLIANT CABLES
 6. PRODUCT COMPLIANT TO Rohs DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC.
 7. DATE CODE: YYDDD, 'YY' REPRESENTS YEAR, 'DDD' REPRESENTS DAY.

PIN ASSIGNMENT			
USB		ESATA	
NAME	TYPE	NAME	TYPE
P1	VBUS	NOT USED	
P2	D-		
P3	D+		
P4	GND		

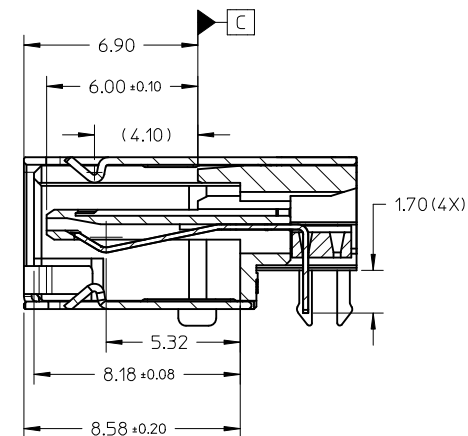
PLATING SPECIFICATION

PART NAME	CONTACT MATING AREA	SOLDERTAIL AREA
78561-0003	GOLD (0.76µm MIN.)	TIN (2.54µm MIN.)
	OVER NICKEL (1.27µm MIN.) PLATING	
78561-0004	GOLD (0.38µm MIN.)	TIN (2.54µm MIN.)
	OVER NICKEL (1.27µm MIN.) PLATING	

ADD DATE CODE EC NO: S2010-0875 DRW:KHLIM CHKD:CGOH APPR:BOKOK A4	DESCRIPTION REV	QUALITY SYMBOLS F _A =0 F _C =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	USB COMBO (W/O ESATA) TOP MOUNT/ SINK TYPE 1.50MM HEIGHT MOLEX INCORPORATED	SHEET NO. 1 OF 4
				mm	INCH	DRAWN BY KHLIM	DATE 2009/10/06	TITLE			
			4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2009/12/01				
			3 PLACES	± ---	± ---	APPROVED BY BOKOK	DATE 2010/04/30				
			2 PLACES	± 0.25	± ---	MATERIAL NO. SEE TABLE			DOCUMENT NO. SD-78561-002		
			1 PLACE	± ---	± ---	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		



SECTION Z-Z



SECTION Y-Y

ADD DATE CODE EC NO: S2010-0875 DRWN:KHLIM CHKD:CGOH APPR:BOKOK A4	2010/04/19 2010/04/29 2010/05/03	DESCRIPTION REV	QUALITY SYMBOLS $F_A=0$ $F_C=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY KHLIM	DATE 2009/10/06	TITLE USB COMBO (W/O ESATA) TOP MOUNT/ SINK TYPE 1.50MM HEIGHT MOLEX INCORPORATED		
				4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2009/12/01			
				3 PLACES	± ---	± ---	APPROVED BY BOKOK	DATE 2010/04/30			
				2 PLACES	± 0.25	± ---	MATERIAL NO.			DOCUMENT NO.	SHEET NO.
1 PLACE		± ---	± ---	SEE TABLE		SD-78561-002		2 OF 4			
ANGULAR ± 3 °											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

USB COMBO (W/O ESATA)
TOP MOUNT/ SINK TYPE
1.50MM HEIGHT



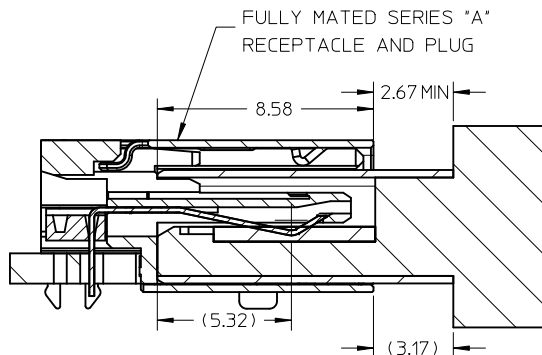
MOLEX INCORPORATED

DOCUMENT NO.

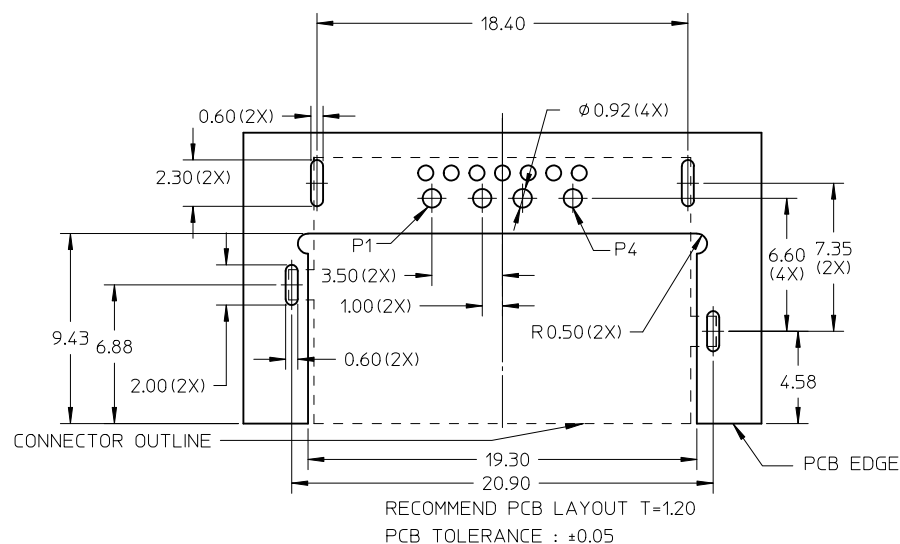
SD-78561-002

SHEET NO.

2 OF 4



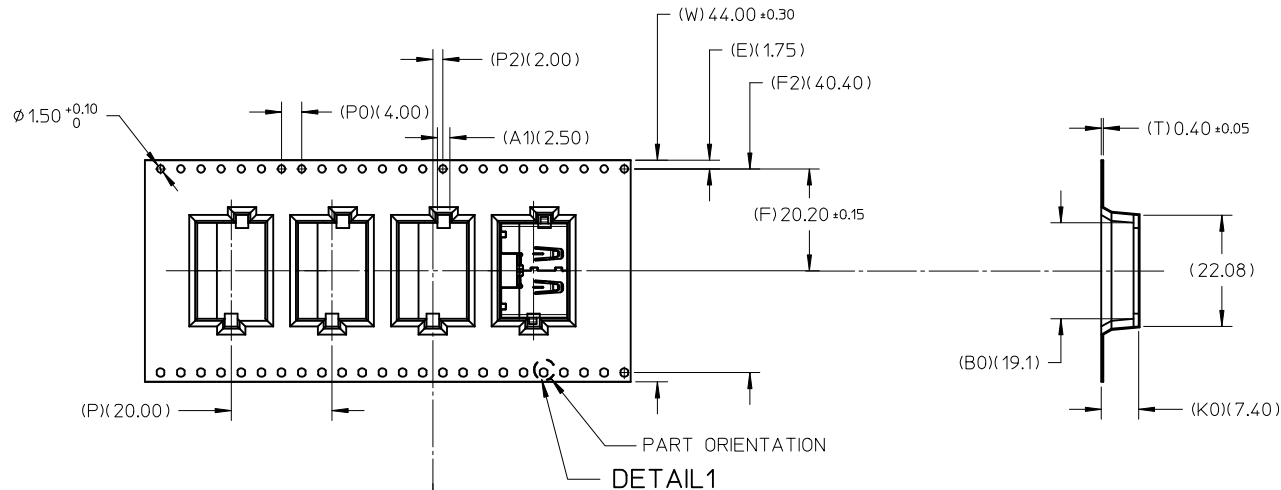
MATING WITH USB CABLE
SECTION X-X



ADD DATE CODE		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: S2010-0875		DESCRIPTION		mm		MM ONLY		NTS	METRIC	DRAWN BY	
2010/04/19		DRWN:KHLIM		± ---		DATE		2009/10/06		TITLE	
2010/04/29		CHKD:CGOH		± ---		CHECKED BY		DATE		USB COMBO (W/O ESATA)	
2010/05/03		APPR:BOKOK		± 0.25		DATE		2009/12/01		TOP MOUNT/ SINK TYPE	
				± ---		APPROVED BY		DATE		1.50MM HEIGHT	
				± ---		BOKOK		2010/04/30		MOLEX INCORPORATED	
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SD-78561-002	
				DRAFT WHERE APPLICABLE		SEE TABLE				SHEET NO.	
				MUST REMAIN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX				3 OF 4	
				WITHIN DIMENSIONS		INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

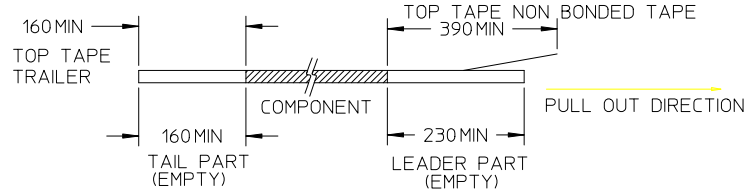
10 9 8 7 6 5 4 3 2 1

CUSTOMER PULLOUT DIRECTION

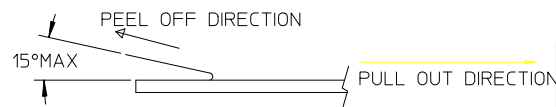


NOTES:

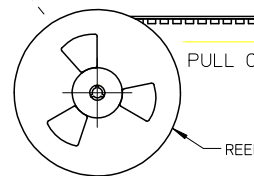
1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 10-130gf MAX.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- PACKAGING QTY: 400 PCS/REEL
- PACKAGING STANDARD IS AS PER EIA-481.
- MATERIAL: POLYSTYRENE. ANTISTATIC.
- COLOR: BLACK



ADD DATE CODE EC NO: S2010-0875 DRAWN:KHLIM CHKD:CGOH APPR:BOKOK	2010/04/19 2010/04/29 2010/05/03	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION
						MM ONLY		NTS	METRIC	
						DRAWN BY	DATE	TITLE USB COMBO (W/O ESATA) TOP MOUNT/ SINK TYPE 1.50MM HEIGHT		
						CHECKED BY	DATE			
						APPROVED BY	DATE			
						MATERIAL NO.	DOCUMENT NO.			
A4	REV			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78561-002		4 OF 4
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				