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Part Number:

0785600002

Status:

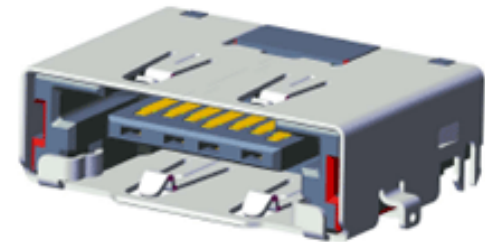
Active

Overview:

esatausb_combo_receptacles

Description:

Combo External Serial ATA and USB Receptacles, Right Angle, Through hole, Top Mount, Sink Type, 1.80mm (.071") Sink Mount Height, Lead free



Series

image - Reference only

Documents:

[Drawing \(PDF\)](#)

[Product Specification PS-78560-001 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	I/O Connectors
Series	78560
Application	Wire-to-Board
Comments	Shorter hind Forklocks . 1.80mm (.071") Sink Mount Height . Mountedon 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)	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
Termination Interface: Style	Through Hole

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

78560Series

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

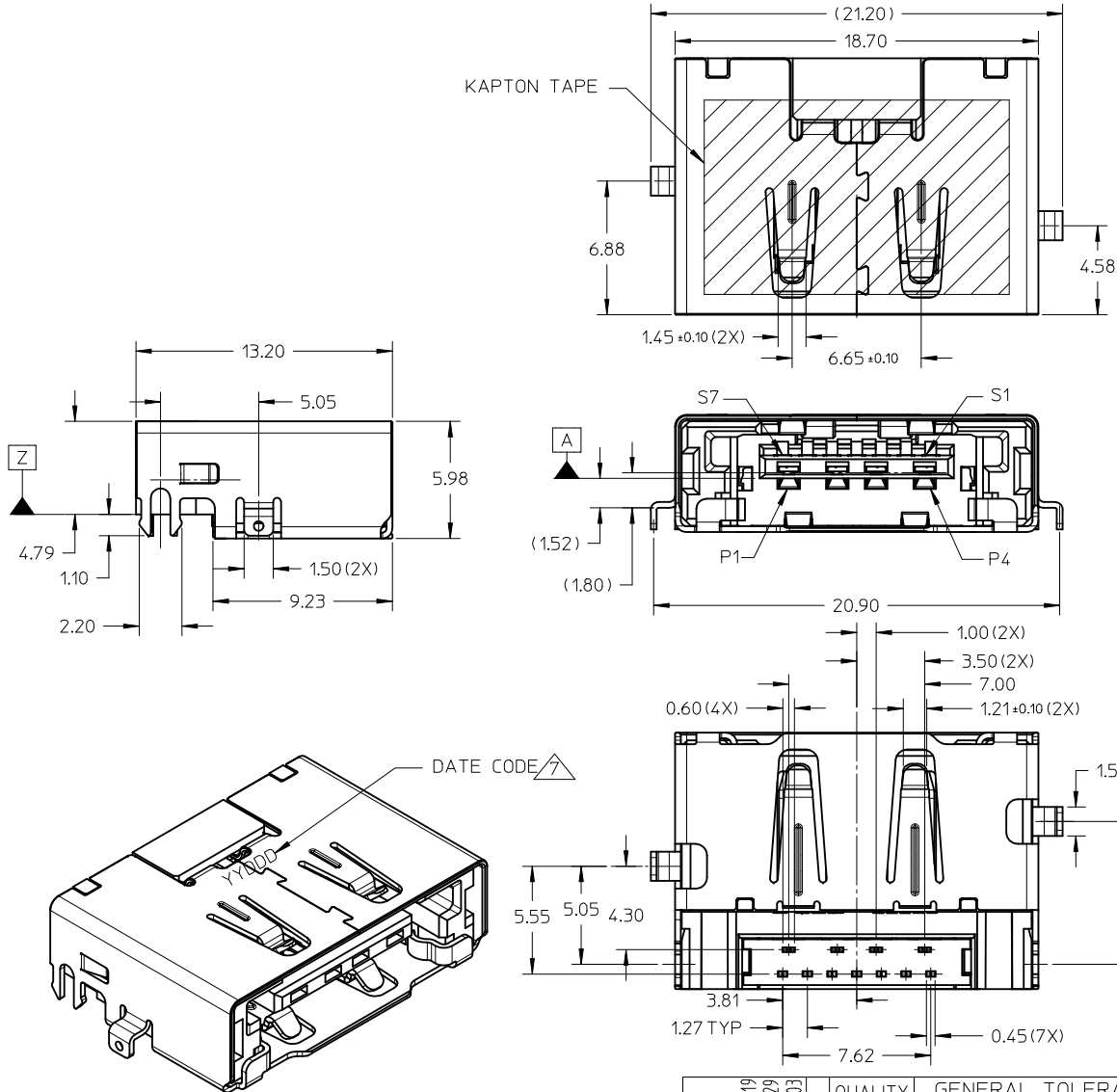
Material Info

Reference - Drawing Numbers

Product Specification	PS-78560-001
Sales Drawing	SD-78560-001

This document was generated on 05/20/2010

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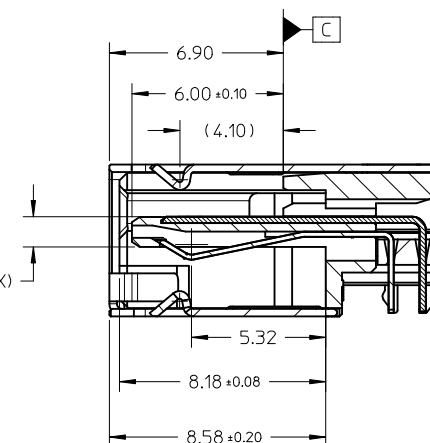
- NOTES:
1. MATERIAL:
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, GLASS FILLED, BLACK, UL94V-0.
BASEPLATE: HIGH TEMPERATURE THERMOPLASTIC, GLASS FILLED, BLACK, UL94V-0.
TERMINAL: COPPER ALLOY.
METAL SHELL: STAINLESS STEEL.
 2. PLATING FINISHES
TERMINAL: SEE TABLE
METAL SHELL PLATING: 1.27µm MIN SOLDERABLE NICKEL PLATING.
 3. PRODUCT SPECIFICATION: PS-78560-001
 4. PACKAGE SPECIFICATION: PK-78560-001
 5. MATES WITH TYPICAL ESATA AND 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.

USB		ESATA	
NAME	TYPE	NAME	TYPE
P1	VBUS	S1	GND
P2	D-	S2	A+
P3	D+	S3	A-
P4	GND	S4	GND
		S5	B-
		S6	B+
		S7	GND

PLATING SPECIFICATION

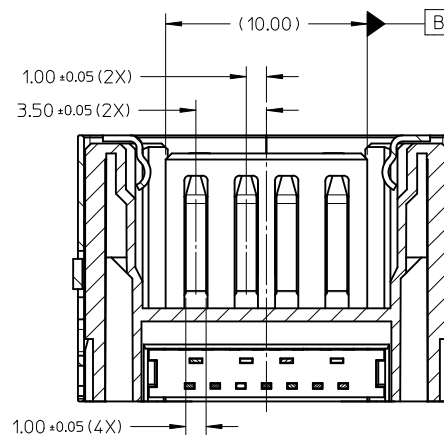
PART NAME	CONTACT MATING AREA	SOLDERTAIL AREA
78560-0001	GOLD (0.76µm MIN.)	TIN (2.54µm MIN.)
	OVER NICKEL (1.27µm MIN.) PLATING	
78560-0002	GOLD (0.38µm MIN.)	TIN (2.54µm MIN.)
	OVER NICKEL (1.27µm MIN.) PLATING	

ADD DATE CODE EC NO: S2010-0875 DRW:KHLIM CHKD:CGH APPR:BOKOK	REV DESCRIPTION F _A =0 F _C =0 F _P =0	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE ESATA AND USB COMBO TOP MOUNT/ SINK TYPE 1.80MM HEIGHT MOLEX INCORPORATED							
					DRAWN BY KHLIM												
					DATE 2009/10/09												
					CHECKED BY CGOH												
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY BOKOK		DATE 2010/04/30	DOCUMENT NO. SD-78560-001	SHEET NO. 1 OF 4								
					MATERIAL NO. SEE TABLE												
					SIZE A3												
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												



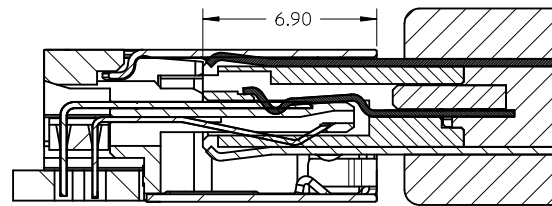
SECTION Z-Z

SECTION X-X



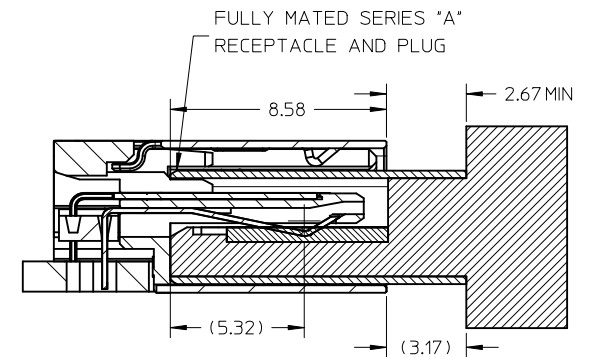
SECTION Y-Y

ADD DATE CODE EC NO: S2010-0875 DRWN:KHL IM CHKD:CGH APPR:BOBOK	DESCRIPTION 2010/04/19 2010/04/29 2010/05/03	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY KHL IM	DATE 2009/10/09	TITLE ESATA AND USB COMBO TOP MOUNT/ SINK TYPE 1.80MM HEIGHT	MOLEX MOLEX INCORPORATED	SHEET NO. 2 OF 4
			4 PLACES	± ---	± ---	CHECKED BY CGH	DATE 2009/12/01			
			3 PLACES	± ---	± ---	APPROVED BY BOBOK	DATE 2010/04/30			
A3	REV		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		SEE TABLE SD-78560-001		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	



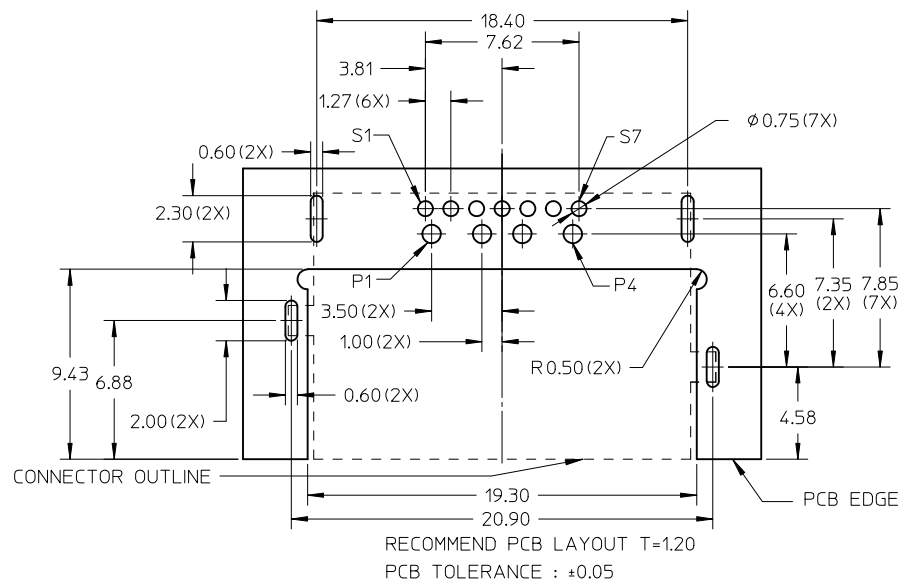
MATING WITH ESATA CABLE

SECTION W-W



MATING WITH USB CABLE

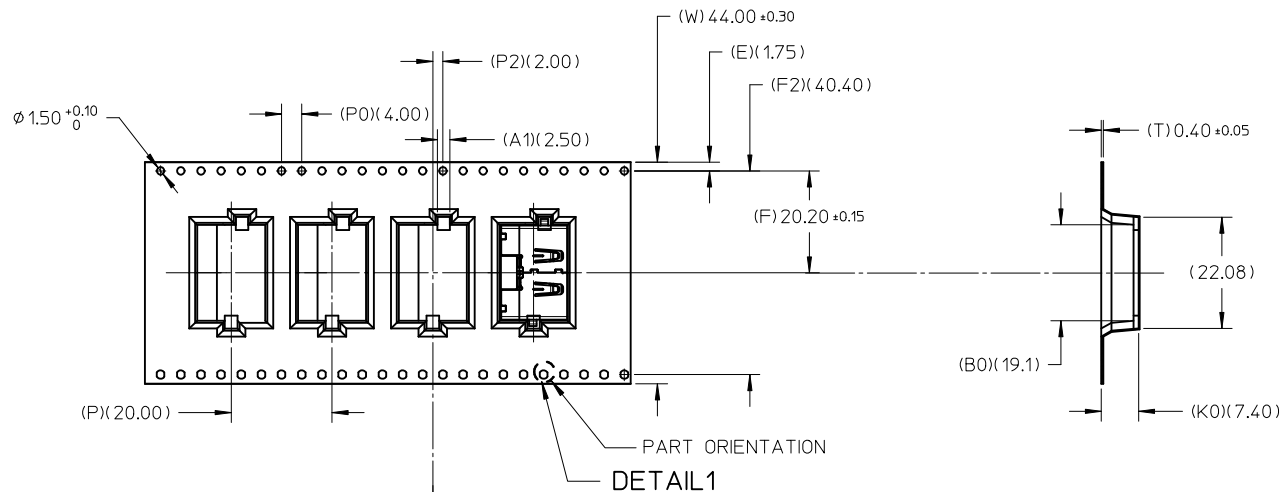
SECTION U-U



ADD DATE CODE EC NO: S2010-0875 DRWN:KHLIM CHKD:CGOH APPR:BOKOK	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 2009/10/09	TITLE ESATA AND USB COMBO TOP MOUNT/ SINK TYPE 1.80MM HEIGHT	
				4 PLACES	±---	±---	CHECKED BY CGOH	DATE 2009/12/01		
				3 PLACES	±---	±---				
				2 PLACES	±0.25	±---	APPROVED BY BOKOK	DATE 2010/04/30	 MOLEX INCORPORATED	
				1 PLACE	±---	±---				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 3 °		MATERIAL NO.	DOCUMENT NO.		SHEET NO.		
			SEE TABLE		SD-78560-001		3 OF 4			
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

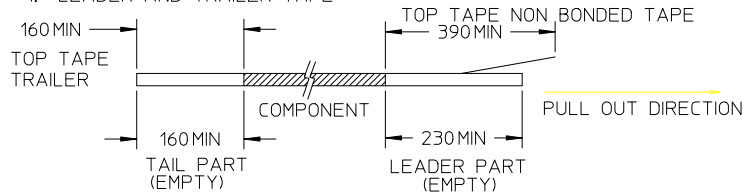
10 9 8 7 6 5 4 3 2 1

CUSTOMER PULLOUT DIRECTION



NOTES:

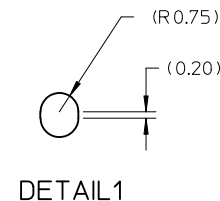
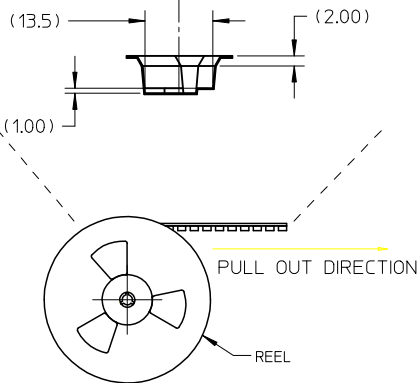
1. LEADER AND TRAILER TAPE



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



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



ADD DATE CODE EC NO: S2010-0875 DRWN:KHLIM CHKD:CGOH APPR:BOKOK A3	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 2009/10/09	TITLE ESATA AND USB COMBO TOP MOUNT/ SINK TYPE 1.80MM HEIGHT				
			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. SD-78560-001				
			1 PLACE	± ---	± ---	SEE TABLE						
			ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SHEET NO. 4 OF 4		
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