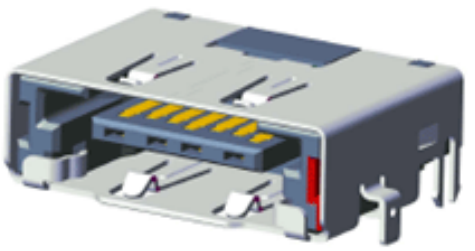
This document was generated on 05/20/2010

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Part Number: 0785610002
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)
RoHS Certificate of Compliance (PDF)
Product Specification PS-78561-001 (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 design has 2 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
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
78561Series

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

Termination Interface: Style	Through Hole

Electrical

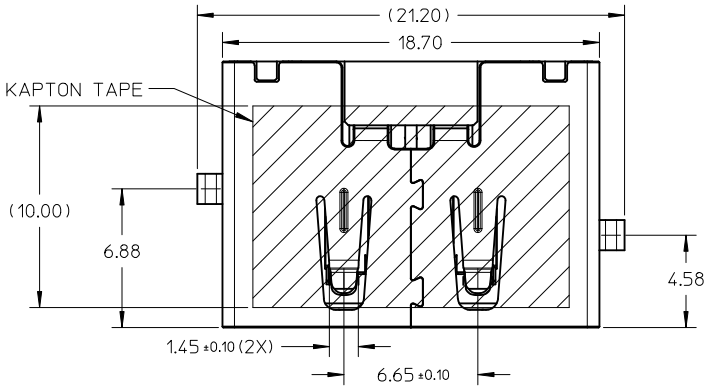
Current - Maximum per Contact	1.5A
Grounding to Panel	Yes
Shield Type	Full Shield
Shielded	Yes
Voltage - Maximum	15V DC

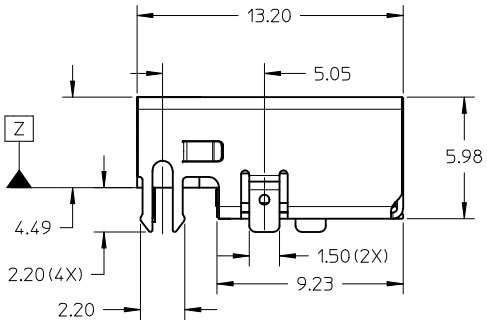
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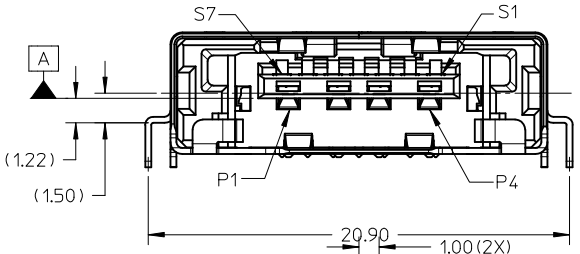
Reference - Drawing Numbers

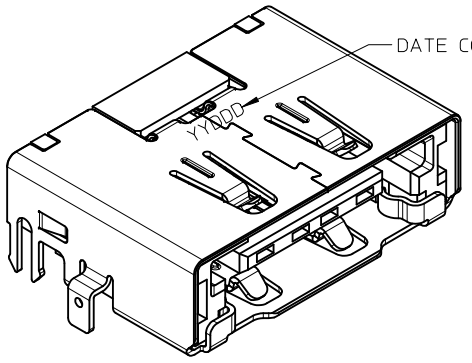
Product Specification	PS-78561-001
Sales Drawing	SD-78561-001

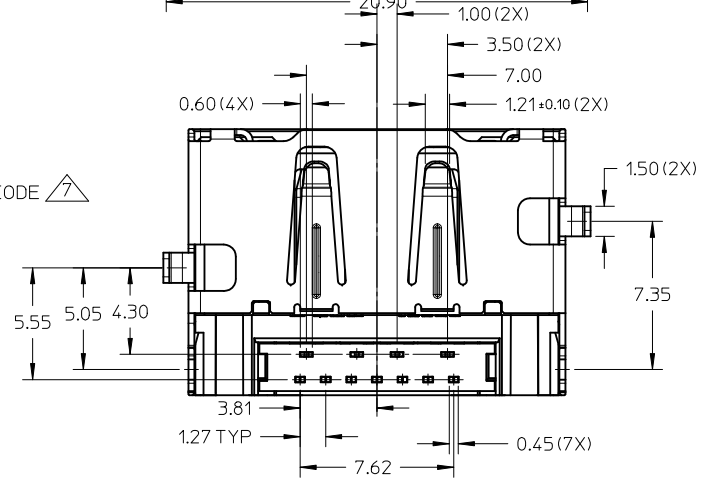
This document was generated on 05/20/2010
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NOTES:

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-78561-001
4. PACKAGING SPECIFICATION: PK-78561-001
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.

PIN ASSIGNMENT

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
78561-0001	GOLD (0.76um MIN.)	TIN (2.54μm MIN.)
	OVER NICKEL (1.27μm MIN.) PLATING	
78561-0002	GOLD (0.38um MIN.)	TIN (2.54μm MIN.)
	OVER NICKEL (1.27μm MIN.) PLATING	

ADD DATE CODE
EC NO: S2010-0875 2010/04/19
DRWN:KHLIM 2010/04/29
CH'KD:CGOH 2010/05/03
APPR:BOKOK
DESCRIPTION
REV

A4

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

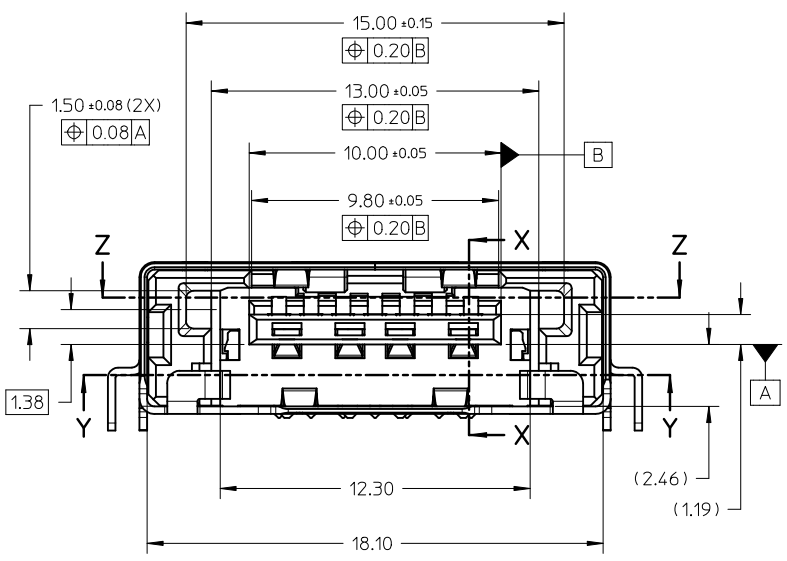
		DATE
DRAWN BY	KHLIM	2009/10/06
CHECKED BY	CGOH	2009/12/01
APPROVED BY	BOKOK	2010/04/30

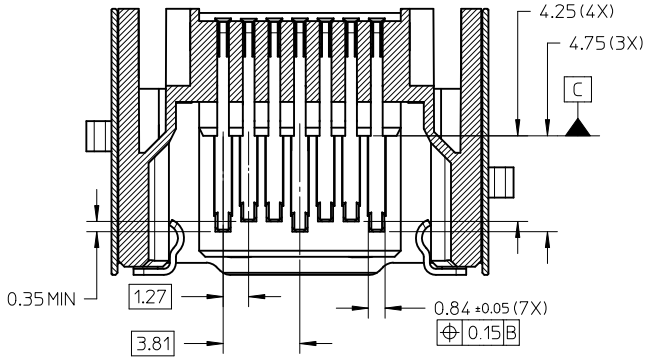
TITLE: ESATA AND USB COMBO TOP MOUNT/ SINK TYPE 1.50MM HEIGHT

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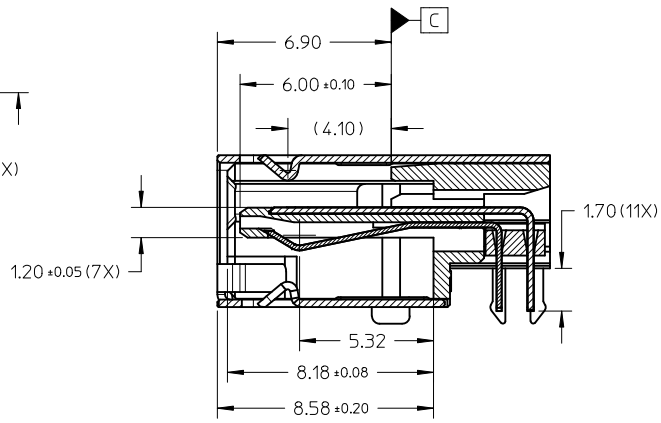
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DOCUMENT NO.: SD-78561-001
SHEET NO.: 1 OF 4
SIZE: A3

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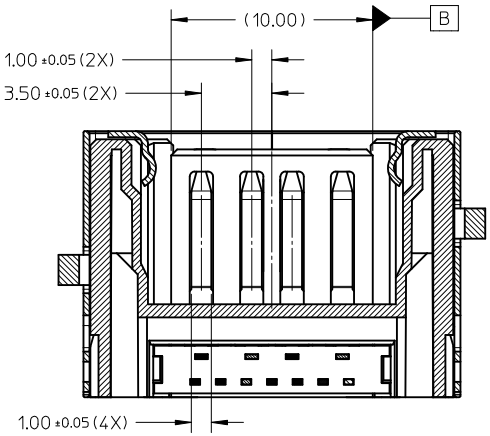




SECTION Z-Z



SECTION X-X



SECTION Y-Y

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APPR:BOKOK
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3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	KHLIM	2009/10/06
CHECKED BY	CGOH	2009/12/01
APPROVED BY	BOKOK	2010/04/30

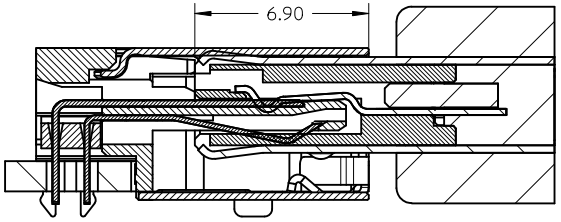
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-78561-001
SHEET NO.: 2 OF 4

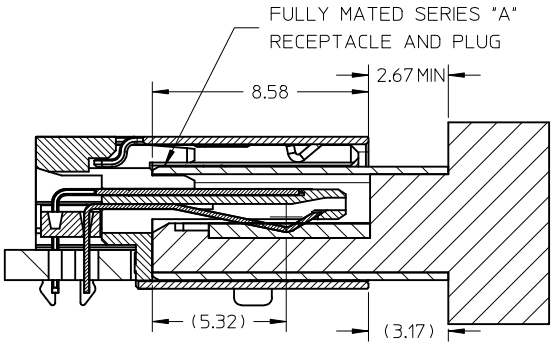
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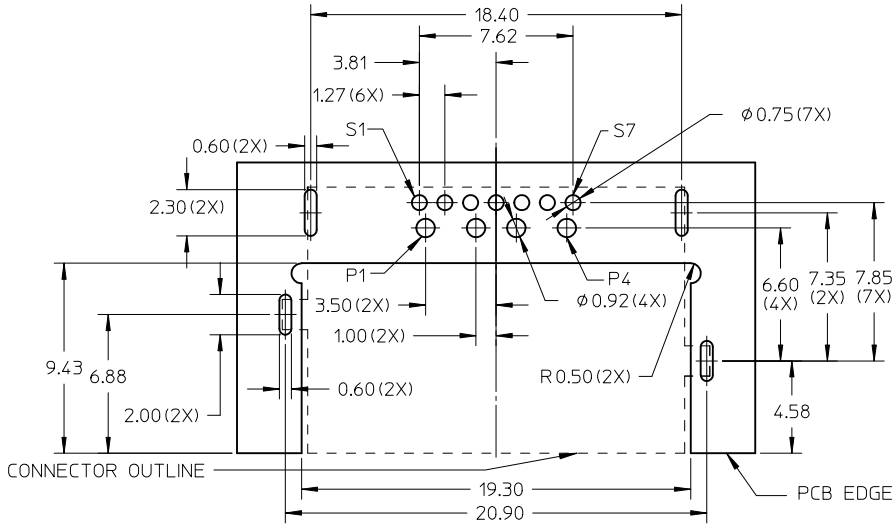
MATING WITH ESATA CABLE

SECTION W-W



MATING WITH USB CABLE

SECTION U-U



RECOMMEND PCB LAYOUT T=1.20

PCB TOLERANCE : ±0.05

ADD DATE CODE
EC NO: S2010-0875 2010/04/19
DRWN:KHLIM 2010/04/29
CH'KD:CGOH 2010/05/03
APPR:BOKOK

DESCRIPTION

REV

A4

QUALITY SYMBOLS

FA=0

FC=0

FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
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2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY

SCALE: NTS

DESIGN UNITS: METRIC

THIRD ANGLE PROJECTION

DRAWN BY: KHLIM DATE: 2009/10/06

CHECKED BY: CGOH DATE: 2009/12/01

APPROVED BY: BOKOK DATE: 2010/04/30

TITLE: ESATA AND USB COMBO TOP MOUNT/ SINK TYPE 1.50MM HEIGHT

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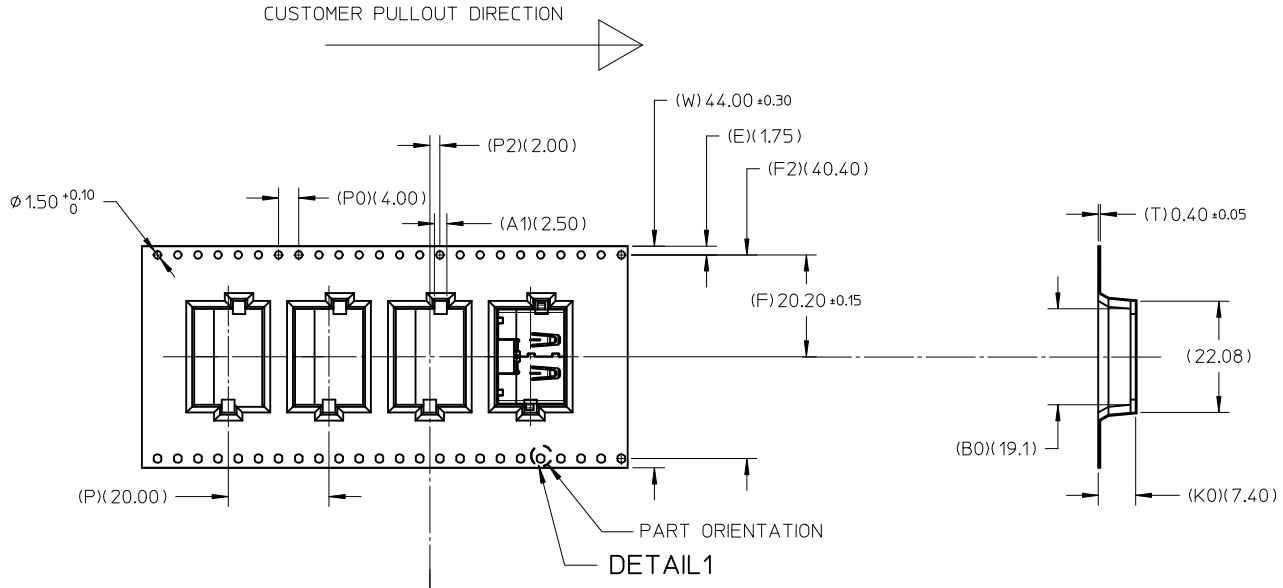
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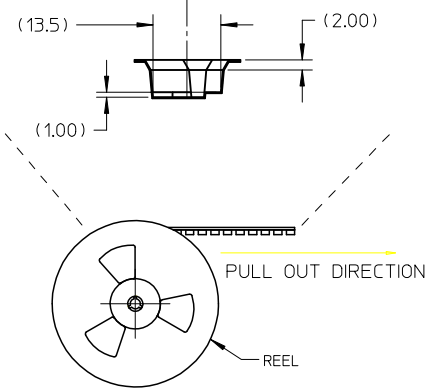
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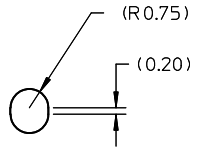
SHEET NO.: 3 OF 4

SIZE: A3

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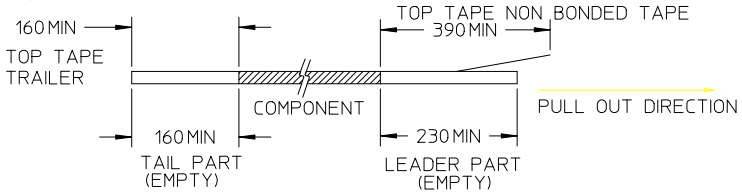




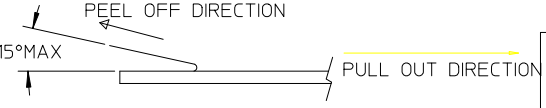


NOTES:

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 2010/04/19
DRWN:KHLIM 2010/04/29
CH'KD:CGOH 2010/05/03
APPR:BOKOK
DESCRIPTION
REV

A4

QUALITY SYMBOLS
F_A=0
F_C=0
F_D=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
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1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	KHLIM	DATE 2009/10/06
CHECKED BY	CGOH	DATE 2009/12/01
APPROVED BY	BOKOK	DATE 2010/04/30

TITLE: ESATA AND USB COMBO TOP MOUNT/ SINK TYPE 1.50MM HEIGHT

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-78561-001
SHEET NO.: 4 OF 4
SIZE: A3

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