

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

1054500101

Status:

Active

Overview:

Consumer USB Products

Description:

Universal Serial Bus (USB) Shielded I/O Receptacle, Type C, Right Angle, Surface Mount, Gold (Au) Flash over 0.76µm Palladium Nickel Plating

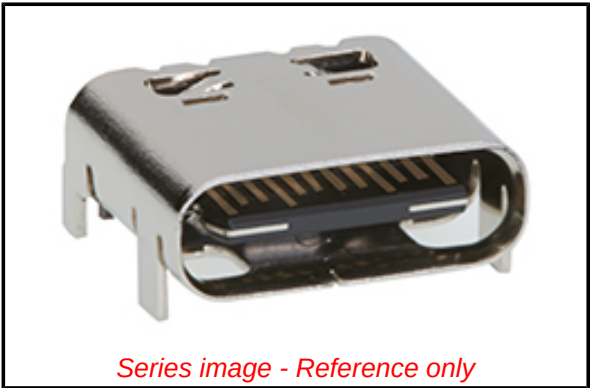
Documents:

Drawing (PDF)

Product Specification PS-105448-001 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	I/O Connectors
Series	105450
Application	Wire-to-Board
Comments	Nickel underplating
Component Type	Receptacle
Overview	Consumer USB Products
Product Name	USB 3.1
Type	C
UPC	889056497121
Physical	
Circuits (Loaded)	24
Circuits (maximum)	24
Color - Resin	Black
Durability (mating cycles max)	10000
Gender	Receptacle
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold over Palladium Nickel
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
Net Weight	0.539/g
Number of Rows	2
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	None
PCB Thickness - Recommended	0.70mm
Packaging Type	Embossed Tape on Reel
Panel Mount	Yes
Pitch - Mating Interface	0.50mm
Pitch - Termination Interface	0.50mm
Plating min - Mating	0.051µm (Au), 0.762µm (PdNi)
Plating min - Termination	0.051µm
Polarized to Mating Part	No
Polarized to PCB	Yes
Ports	1
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-30°C to +85°C
Termination Interface: Style	Surface Mount
Electrical	
Current - Maximum per Contact	0.25A, 1.25A, 5.0A
Grounding to Panel	None
Shield Type	Full Shield
Shielded	Yes



EU ELV

Not Reviewed

EU RoHS

China RoHS

Not Reviewed

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

Need more information on product environmental compliance?

Email productcompliance@molex.com

Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS

Not Reviewed

ELV

Not Reviewed

Search Parts in this Series

105450 Series

Mates With

USB Type C Plug/Cable

Voltage - Maximum

30V AC/DC

Material Info

Reference - Drawing Numbers

Product Specification

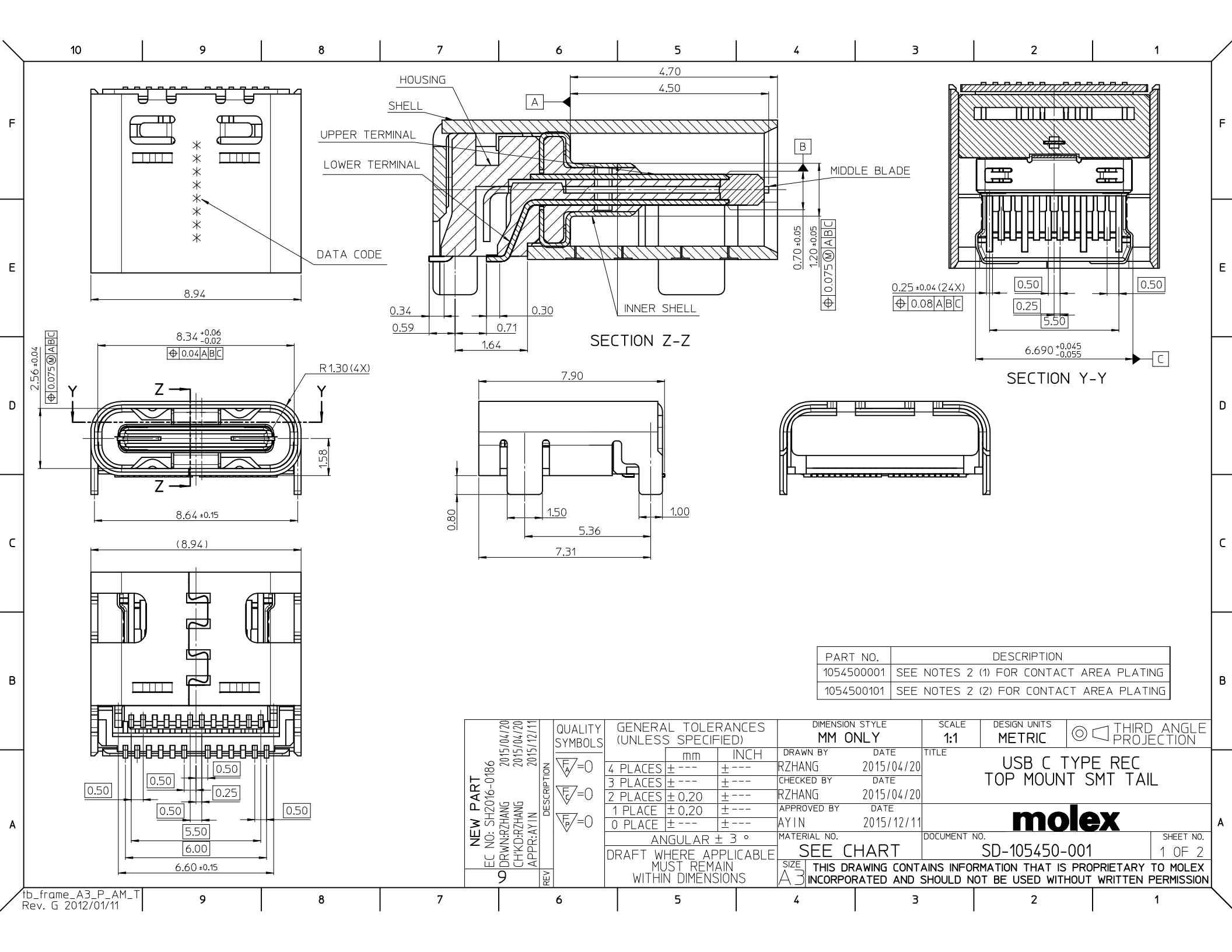
PS-105448-001

Sales Drawing

SD-105450-001

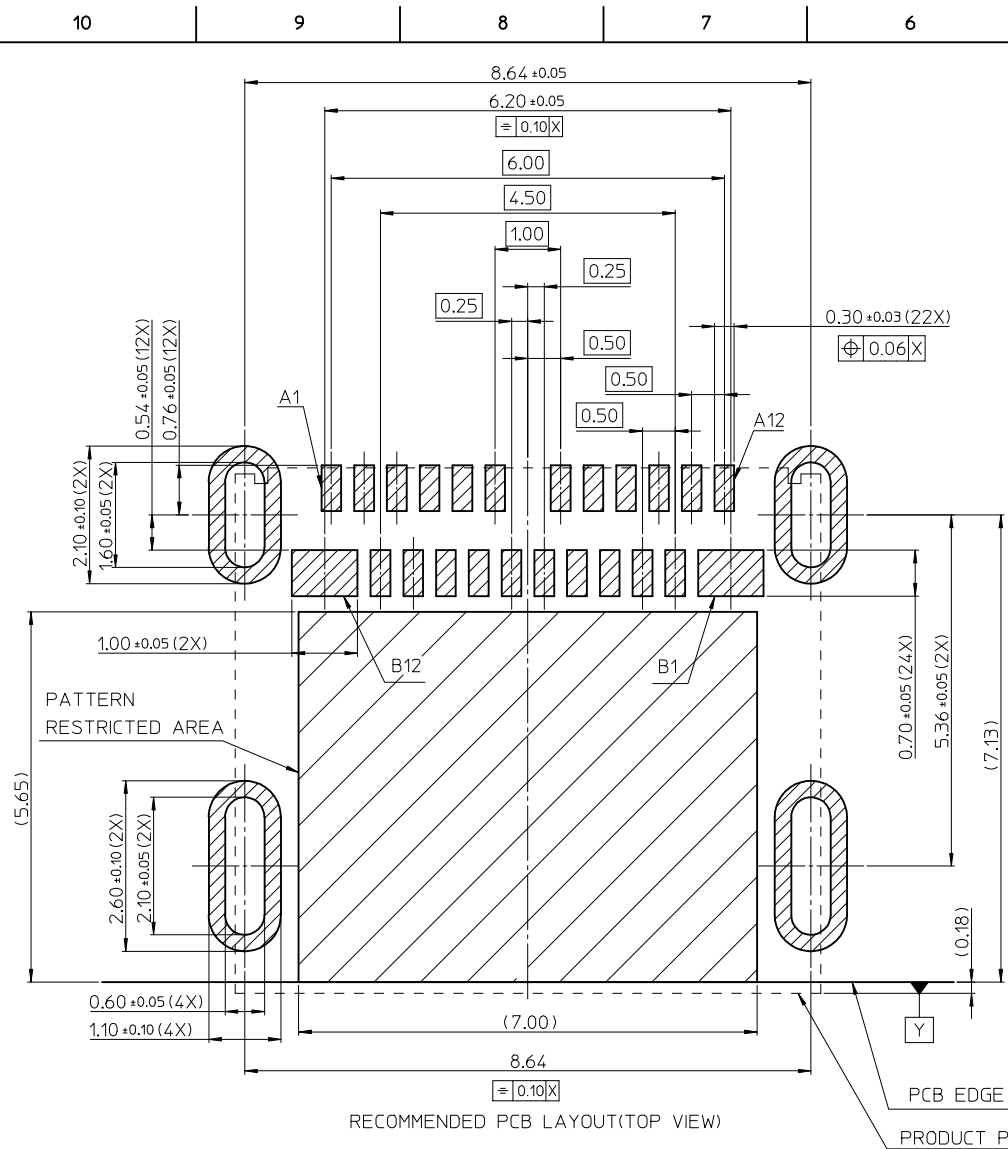
This document was generated on 01/05/2016

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



PART NO.	DESCRIPTION
1054500001	SEE NOTES 2 (1) FOR CONTACT AREA PLATING
1054500101	SEE NOTES 2 (2) FOR CONTACT AREA PLATING

NEW PART EC NO: SH2016-0186 DRAWN:RZHANG 2015/04/20 CHKD:RZHANG 2015/04/20 APPR:AYIN 2015/12/11	DESCRIPTION	QUALITY SYMBOLS F_A=0 F_G=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY RZHANG	DATE 2015/04/20	TITLE USB C TYPE REC TOP MOUNT SMT TAIL molex					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	RZHANG	2015/04/20						
			2 PLACES	± 0.20	± ---	APPROVED BY	DATE						
			1 PLACE	± 0.20	± ---	AYIN	2015/12/11	DOCUMENT NO. SD-105450-001 SHEET NO. 1 OF 2					
			0 PLACE	± ---	± ---	MATERIAL NO.							
			ANGULAR ± 3 °		SEE CHART								
			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							



NOTES:

1. MATERIAL.

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

TERMINAL: COPPER ALLOY

SHELL: STAINLESS STEEL

INNER SHELL: STAINLESS STEEL

MIDDLE BLADE: STAINLESS STEEL

2. PLATING:

TERMINAL: CONTACT AREA:

(1). 0.76 MICROMETER MIN. GOLD PLATING

(2). GOLD FLASH OVER 0.76 MICROMETER MIN. PALLADIUM/NICKEL PLATING

AND SOLDER TAIL: 0.05 MICROMETER MIN. GOLD PLATING

UNDER PLATING: 2 MICROMETER MIN. NICKEL PLATING OVERALL

SHELL: 1 MICROMETER MIN. SOLDERABLE NICKEL PLATING OVERALL

INNER SHELL: CLEANING

MIDDLE BLADE: 2 MICROMETER MIN. TIN PLATING OVER THE SOLDER TAIL

AND 1 MICROMETER NICKEL PLATING OVERALL

3. PRODUCT SPEC REFER TO PS-105448-001

4. PACKAGE SPEC REFER TO PK-105450-001

5. COPLANARITY OF SMT PINS SOLDER TAIL IS 0.10 MAX.

BEFORE AND AFTER REFLOW

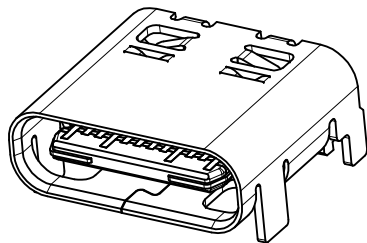
6. T/H SOLDER TAIL POSITION BE CONTROLLED BY GAUGE

7. PRODUCT COMPLANT TO ROHS DIRECTIVE 2011/65/EU

AND ELV DIRECTIVE 2000/53/EC

PIN ASSIGNMENT

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
GND	TX1+	TX1-	VBUS	CC1	D+	D-	SBU1	VBUS	RX2-	RX2+	GND
GND	RX1+	RX1-	VBUS	SBU2	D-	D+	CC2	VBUS	TX2-	TX2+	GND
B12	B11	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1



SEE SHEET 1 EC NO: SH2016-0186 DRAWN:RZHANG CHKD:RZHANG APPR:AYIN REV: 9	DESCRIPTION	QUALITY SYMBOLS F _A =0 F _G =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY RZHANG	DATE 2015/04/20	TITLE USB C TYPE REC TOP MOUNT SMT TAIL					
			4 PLACES	± ---	± ---	CHECKED BY						DATE
			3 PLACES	± ---	± ---	RZHANG	2015/04/20	molex				
			2 PLACES	± 0.20	± ---	APPROVED BY	DATE					
			1 PLACE	± 0.20	± ---	AYIN	2015/12/11	DOCUMENT NO. SD-105450-001				
			0 PLACE	± ---	± ---	MATERIAL NO.						
			ANGULAR ± 3 °		SEE SHEET 1							
			DRAFT WHERE APPLICABLE		SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
			MUST REMAIN WITHIN DIMENSIONS									