

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0783950002](#)  
**Status:** **Active**  
**Description:** 0.80mm(.031"), 1.27mm(.050") Micro SAS Receptacle, Right Angle, SMT, 0.76µm (30µ") Gold (Au) Plating, 25 Circuits, for 1.20mm (.039") to 1.60(.063") PCB Thickness, Halogen free, Lead free

**Documents:**

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**Agency Certification**

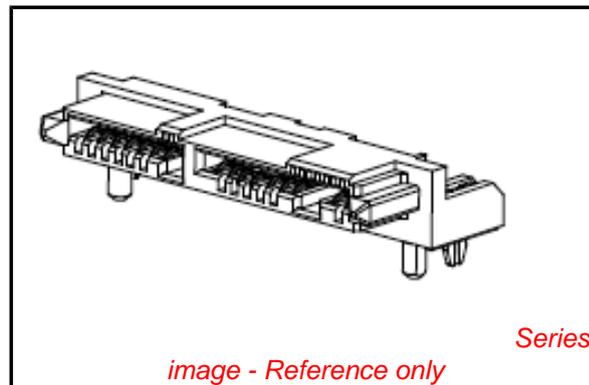
CSA LR19980  
 UL E29179

**General**

Product Family I/O Connectors  
 Series [78395](#)  
 Application Board-to-Board  
 Component Type Receptacle  
 Product Name Micro SAS  
 Type N/A

**Physical**

Boot Color N/A  
 Circuits (Loaded) 25  
 Circuits (maximum) 25  
 Circuits Detail Signal 14, Power 9, Sideband 2  
 Color - Resin Black  
 Durability (mating cycles max) 500  
 Flammability 94V-0  
 Gender Female  
 Keying to Mating Part Yes  
 Lock to Mating Part None  
 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 Yes  
 PCB Retention Yes  
 PCB Thickness Recommended (in) 0.063 In  
 PCB Thickness Recommended (mm) 1.60 mm  
 Packaging Type Tray  
 Panel Mount Yes  
 Pitch - Mating Interface (in) 0.031 In, 0.050 In  
 Pitch - Mating Interface (mm) 0.80 mm, 1.27 mm  
 Plating min: Mating (µin) 30  
 Plating min: Mating (µm) 0.76  
 Plating min: Termination (µin) 100  
 Plating min: Termination (µm) 2.54  
 Polarized to Mating Part Yes  
 Polarized to PCB Yes  
 Ports 2  
 Temperature Range - Operating 0°C to +55°C  
 Termination Interface: Style Surface Mount



**EU RoHS**

**ELV and RoHS  
 Compliant**  
**REACH SVHC  
 Contains SVHC: No**  
**Halogen-Free  
 Status  
 Not Reviewed**

**China RoHS**



**Need more information on product  
 environmental compliance?**

Email [productcompliance@molex.com](mailto: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**

[78395Series](#)

**Mates With**

[78394](#) , [78528](#) Micro SAS Plugs

Waterproof / Dustproof	No
Wire Size AWG	N/A

**Electrical**

Current - Maximum per Contact	1.5A
Voltage - Maximum	30V

**Solder Process Data**

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

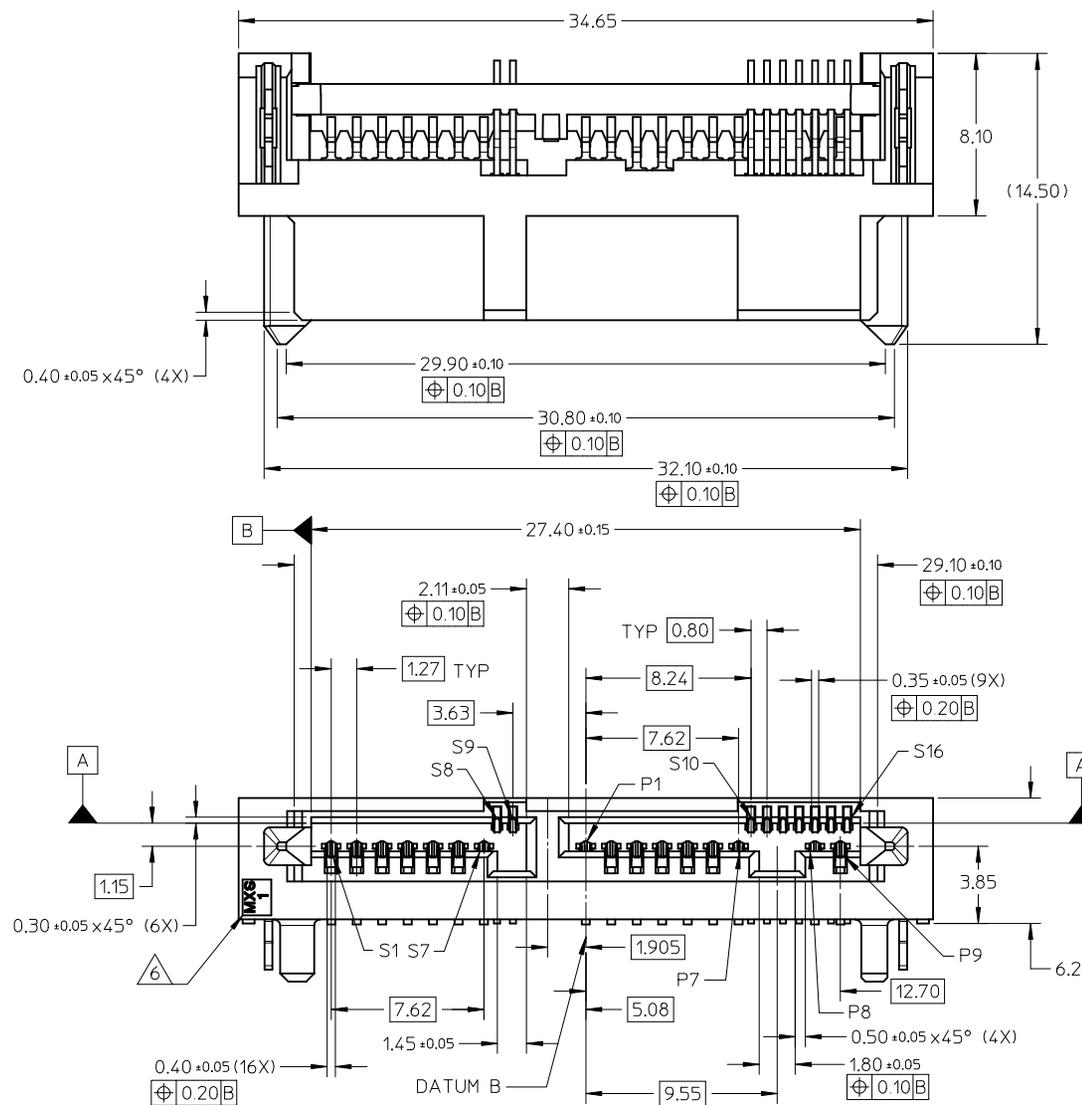
**Material Info****Reference - Drawing Numbers**

Sales Drawing	SD-78395-001
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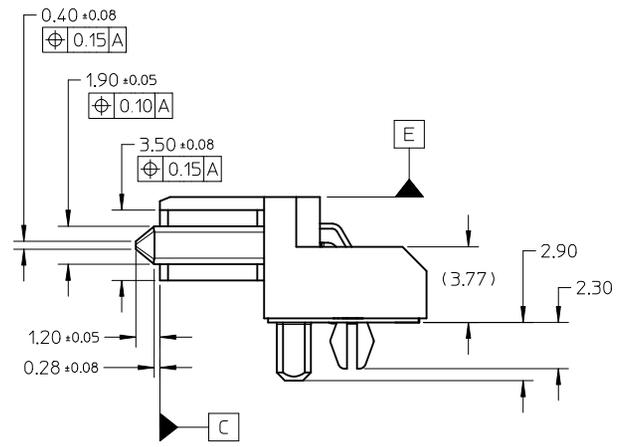
This document was generated on 05/17/2010

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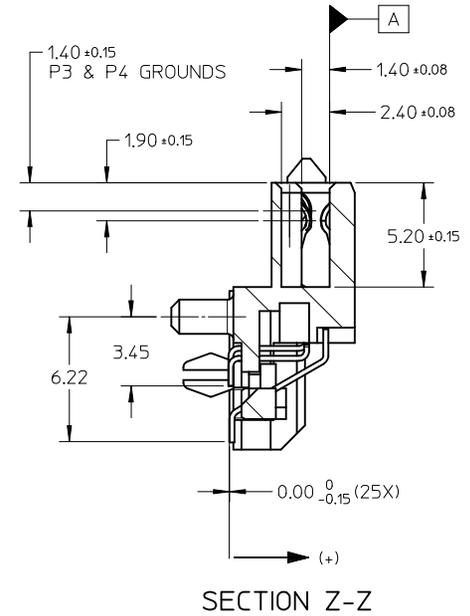
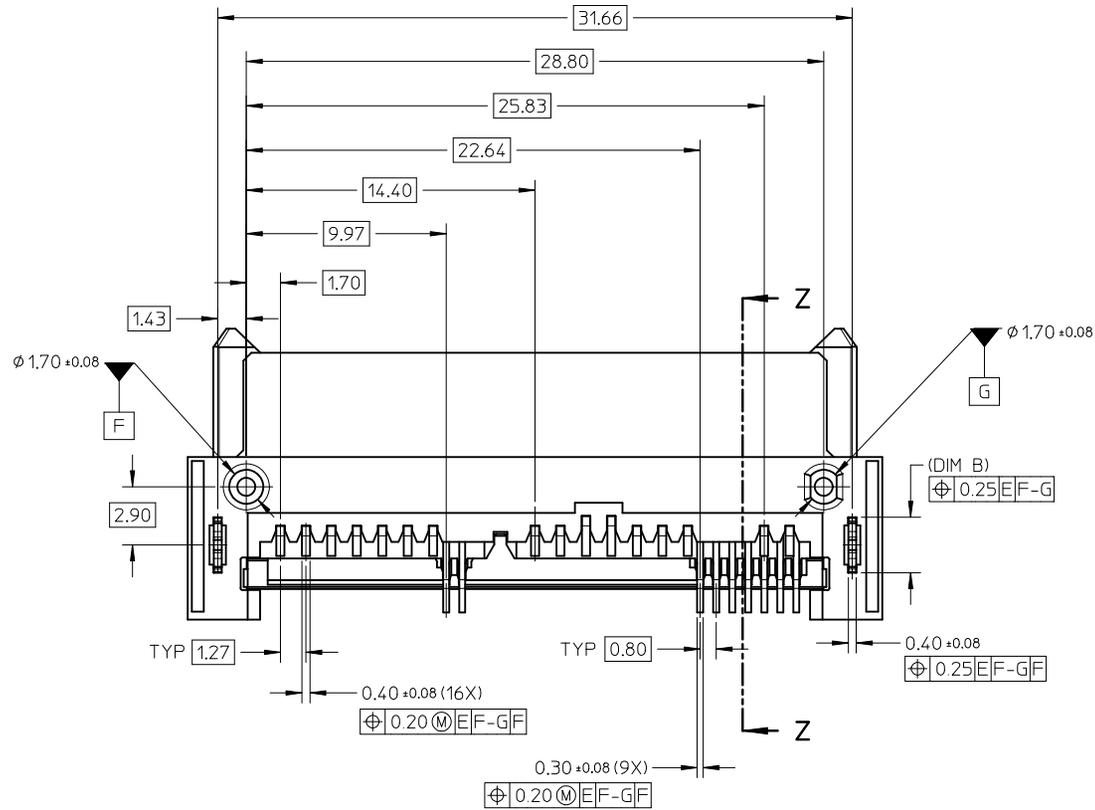


- NOTES:
- MATERIAL : LCP, GLASS FILLED, UL 94V-0, BLACK  
TERMINAL/FORKLOCK : COPPER ALLOY
  - FINISHES :  
TERMINAL : 0.76µm MIN. SELECTIVE GOLD OVER  
1.27µm MIN. NICKEL UNDERPLATE  
: 2.54µm MIN. TIN OVER  
1.27µm MIN. NICKEL UNDERPLATE  
FORKLOCK : 2.54µm MIN. TIN OVER  
1.27µm MIN. NICKEL UNDERPLATE
  - PRODUCT SPECIFICATION PS-78395-001
  - PACKAGING SPECIFICATION : TRAY
  - MATES WITH : MOLEX MICRO SAS PLUG
  - MOLEX LOGO LOCATED APPROXIMATELY AS SHOWN
  - THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYLS ETHERS.
  - NON FUNCTIONAL CORING MAY VARY.

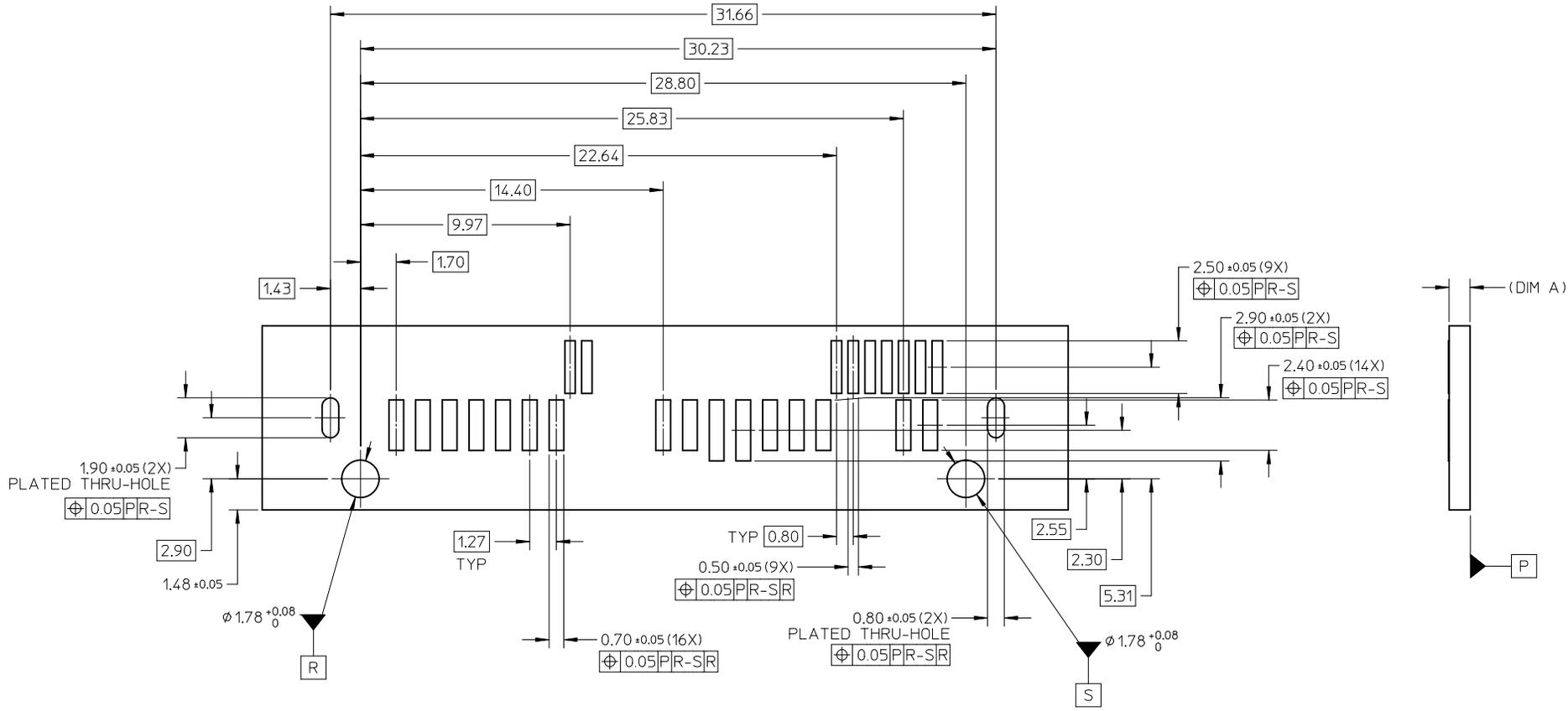


<b>REVISED BASEPLATE</b> EC NO: S2010-0600 DRWING: MEMARLY 2010/01/14 CHKD: SCHEONG 2010/03/31 APPR: BOKKOK 2010/04/01	DESCRIPTION REV	<b>QUALITY SYMBOLS</b> $F_A=0$ $F_C=0$ $F_P=0$		<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> <b>MM ONLY</b>		<b>SCALE</b> NTS	<b>DESIGN UNITS</b> METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY	DATE	TITLE					
				4 PLACES	± ---	± ---	YKOH	2008/05/20	MICRO SAS RECEPTACLE				
				3 PLACES	± ---	± ---	CHECKED BY	DATE	R/A, SMT, 3.85MM HEIGHT				
		2 PLACES	± 0.20	± ---	JTAN02	2008/06/11	1.8 INCH SSD/HDD						
		1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED						
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SD-78395-001					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO.		1 OF 4					
				SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

9 8 7 6 5 4 3 2 1



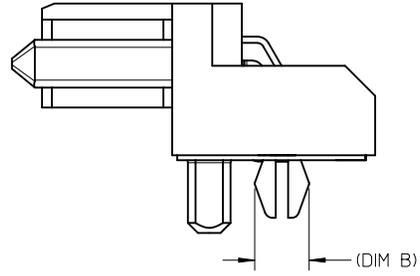
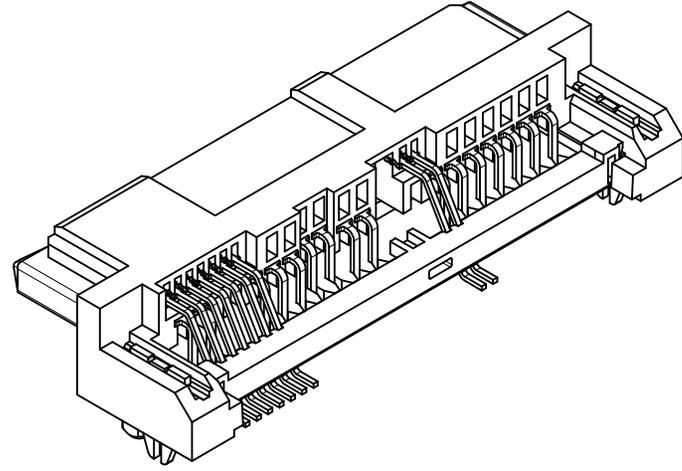
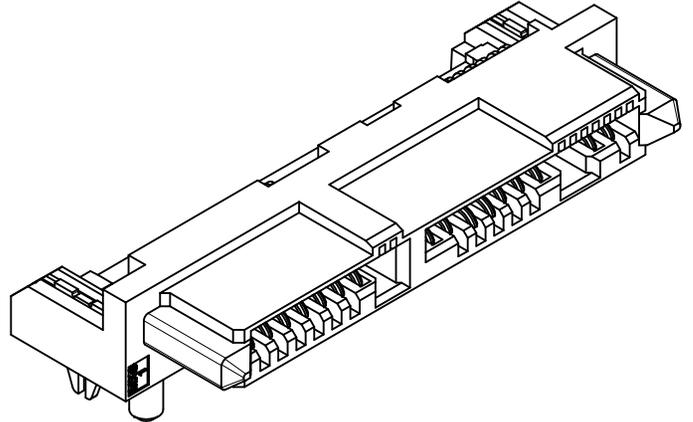
REVISED BASEPLATE EC NO: S2010-0600 DRWN: GEMARLY 2010/01/14 CHKD: SCHEONG 2010/03/31 APPR: BOKKOK 2010/04/01	QUALITY SYMBOLS $F_A=0$ $F_G=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY	DATE	TITLE			
		4 PLACES	± ---	± ---	YKOH	2008/05/20	MICRO SAS RECEPTACLE R/A, SMT, 3.85MM HEIGHT 1.8 INCH SSD/HDD			
		3 PLACES	± ---	± ---	CHECKED BY	DATE				
	± 0.20	± ---	JTAN02	2008/06/11	MOLEX INCORPORATED					
2 PLACES	± 0.20	± ---	APPROVED BY	DATE						
	± ---	± ---	BOKKOK	2010/03/31	MATERIAL NO. SD-78395-001 DOCUMENT NO. 2 OF 4					
1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
	ANGULAR ± 3 °		SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



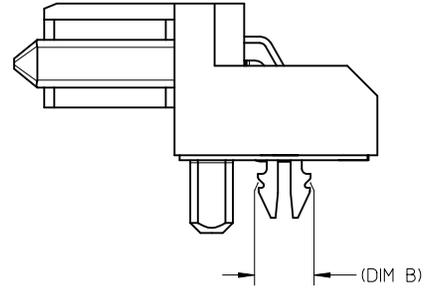
RECOMMENDED PCB LAYOUT

<b>REVISED BASEPLATE</b> EC NO: S2010-0600 DRW: GEMENARLY 2010/01/14 CHK: D.SCHEONG 2010/03/31 APPR: BOKKOK 2010/04/01	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$F_A=0$	mm	INCH	MM ONLY	NTS	METRIC	
	$F_C=0$	4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE	
	$F_P=0$	3 PLACES ± ---	± ---	YKOH	2008/05/20	MICRO SAS RECEPTACLE	
	2 PLACES ± 0.20	± ---	CHECKED BY	DATE	R/A, SMT, 3.85MM HEIGHT		
	1 PLACE ± ---	± ---	JTAN02	2008/06/11	1.8 INCH SSD/HDD		
	ANGULAR ± 3 °		APPROVED BY	DATE	MOLEX INCORPORATED		
			BOKKOK	2010/03/31	MOLEX INCORPORATED		
			MATERIAL NO.	DOCUMENT NO.	SD-78395-001		
			SEE TABLE		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		3 OF 4		
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
			A3				

5	4	3	2	1
PART NUMBER	HOLDDOWN	DIM A (PCB THICKNESS)		DIM B
78395-0001	FORKLOCK	1.00±0.10		(2.18)
78395-0002	FORKLOCK	1.20±0.12 TO 1.60±0.16 PCB FORKLOCK HOLE MUST BE PLATED THRU-HOLE (PTH) REGARDLESS WHETHER FORKLOCK IS SOLDERED OR NOT		(2.10)



78395-0001



78395-0002

<b>REVISED BASEPLATE</b> EC NO: S2010-0600 DRWN:GEMARLY 2010/01/14 CHKD:SCHEONG 2010/03/31 APPR:BOKOK 2010/04/01	DESCRIPTION REV	QUALITY SYMBOLS $F_A=0$ $F_C=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <td></td> <td>mm</td> <td>INCH</td> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.20</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>NTS</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
		mm	INCH																			
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1 PLACE	± ---	± ---																				
			DRAWN BY YKOH	DATE 2008/05/20	TITLE <b>MICRO SAS RECEPTACLE          R/A, SMT, 3.85MM HEIGHT          1.8 INCH SSD/HDD</b>																	
			CHECKED BY JTAN02	DATE 2008/06/11	<b>MOLEX INCORPORATED</b>																	
			APPROVED BY BOKOK	DATE 2010/03/31	MATERIAL NO. <b>SEE TABLE</b>	DOCUMENT NO. <b>SD-78395-001</b>	SHEET NO. <b>4 OF 4</b>															

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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