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Part Number: [0877011001](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Serial ATA Host Receptacle, Press-fit, Vertical, Standard Height, 0.76µm (30µ") Gold (Au) Selective, 22 Circuits, Leadfree

Documents:

[3D Model](#) [Product Specification PS-87701-033 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Receptacles
Series	87701
Application	Board-to-Board
Product Literature Order No	SNG-029
Product Name	Serial ATA

Physical

Circuits (Loaded)	22
Circuits Detail	Power 15 pins Signal 7 pins
Durability (mating cycles max)	500
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Copper
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.136 In
PC Tail Length (mm)	3.45 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.060 In, 0.062 In, 0.070 In, 0.075 In, 0.080 In
PCB Thickness Recommended (mm)	1.50 mm, 1.60 mm, 1.80 mm, 1.90 mm, 2.00 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

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

Material Info

Reference - Drawing Numbers

Product Specification	PS-87701-033
Sales Drawing	SD-87701-013

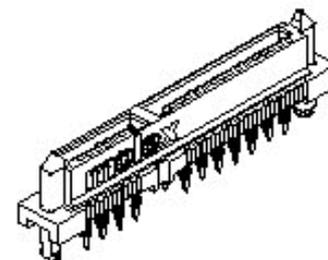


image - Reference only

Series

EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
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

[87701Series](#)

Mates With

[87679](#) , [87799](#) , [87703](#)

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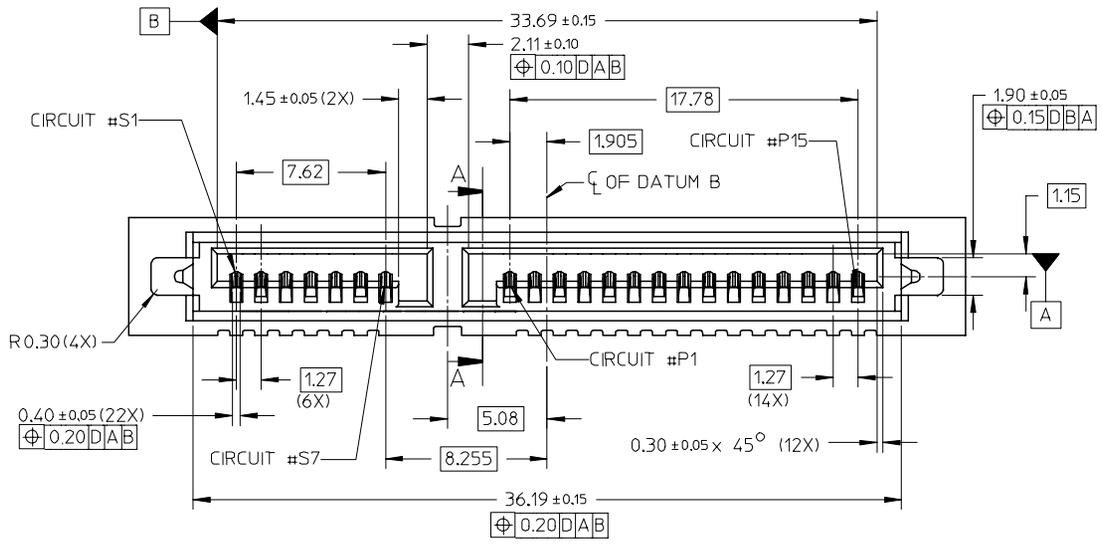
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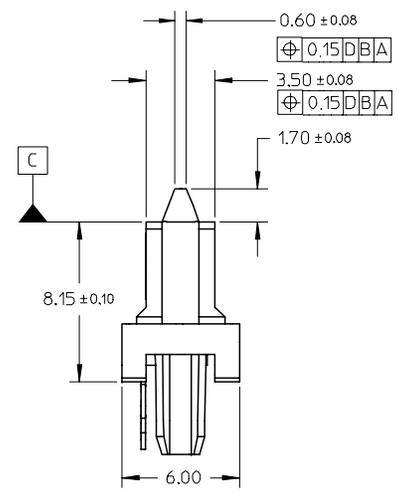
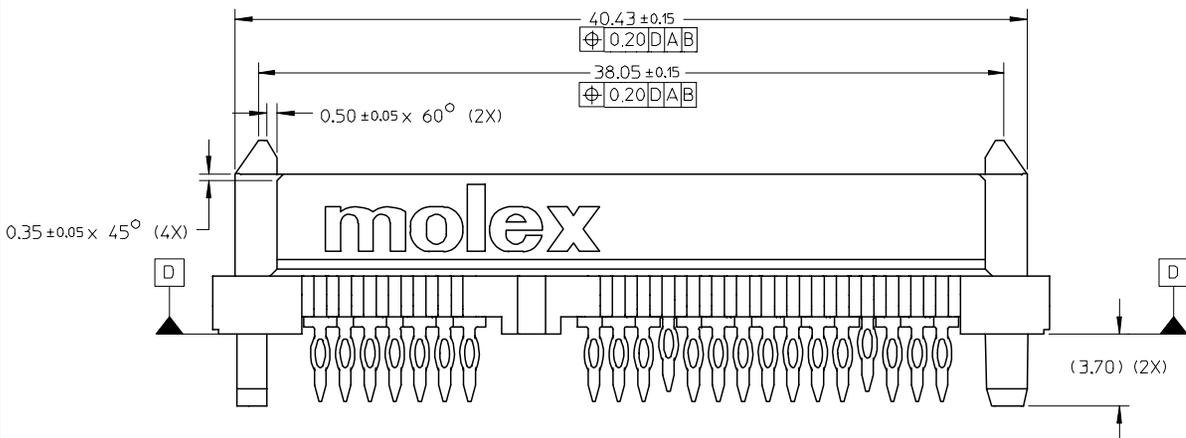
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NOTES:

1. MATERIAL: LCP, GLASS FILLED, UL 94V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY
2. PLATING
CONTACT: 0.76µm MIN, SELECTIVE GOLD OVER 1.27µm MIN, NICKEL UNDERPLATE SOLDER TAIL: 2.54µm MIN, TIN OVER 1.27µm MIN, NICKEL UNDERPLATE
3. MOLEX LOGO LOCATED APPROXIMATELY AS SHOWN
4. MAXIMUM WARPAGE OF 0.13 mm OVER THE LENGTH OF THE CONNECTOR IN ANY DIRECTION BEFORE AND AFTER EXPOSURE TO MAX. 260°C FOR 10 SECONDS
5. PCB THICKNESS RANGE FROM 1.50 mm TO 2.00 mm
6. KEEP OUT ZONE ON BOTH SIDE OF PCB FOR CONNECTOR INSERTION AND EXTRACTION TOOL
7. PRODUCT SPECIFICATION: PS-87701-033 APPLIES
8. PACKAGING
30 CONNECTORS PER TRAY



DIM UPDATE	EC NO: S2008-0237	2007/09/20
	DRWN:KLLIM	2007/09/20
	CHKD:CGOH	2007/09/20
	APPR:KCLING	2007/09/20
C2	REV	DESCRIPTION

QUALITY SYMBOLS	▽=0
	∇=0

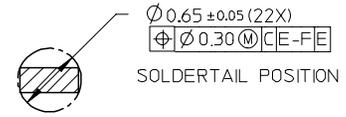
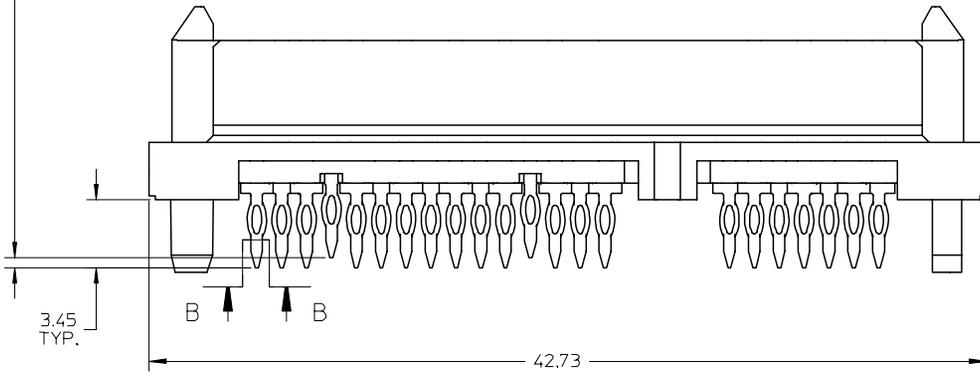
GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		NTS	METRIC	
DRAWN BY	DATE	TITLE		
DKOH	2002/07/01	SERIAL ATA BACKPLANE PRESS-FIT STD HEIGHT RECEPTACLE		
CHECKED BY	DATE			
KCLING	2002/07/05			
APPROVED BY	DATE	MOLEX INCORPORATED		
SKTOH	2002/07/05			
MATERIAL NO.		DOCUMENT NO.	SHEET NO.	
87701-1001		SD-87701-013	1 OF 4	

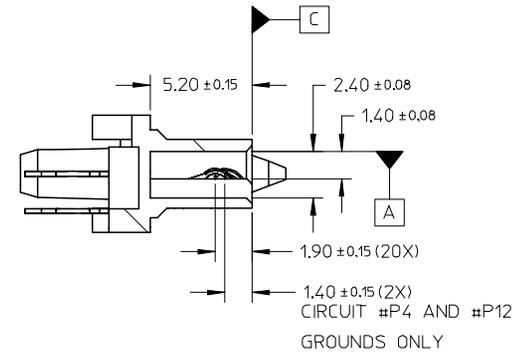
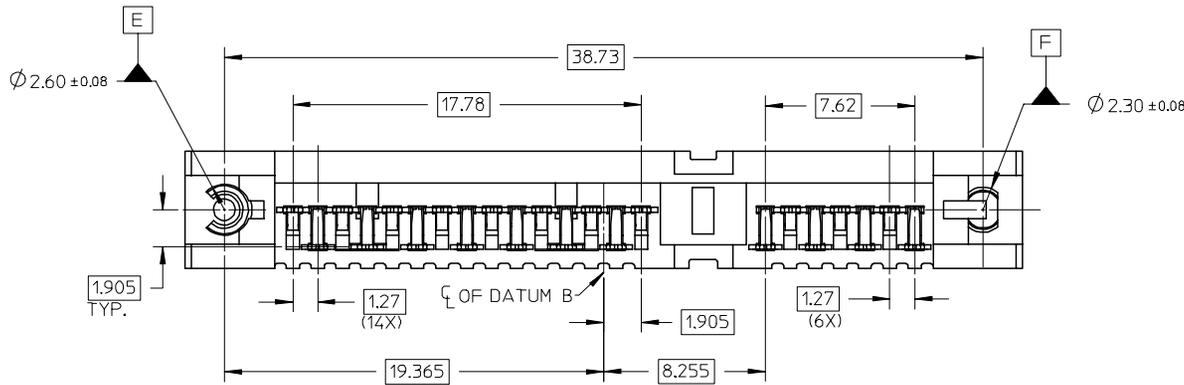
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CIRCUIT #P4 AND #P12 ONLY
0.50



SECTION B-B

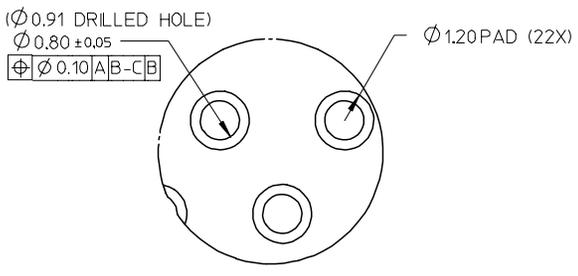
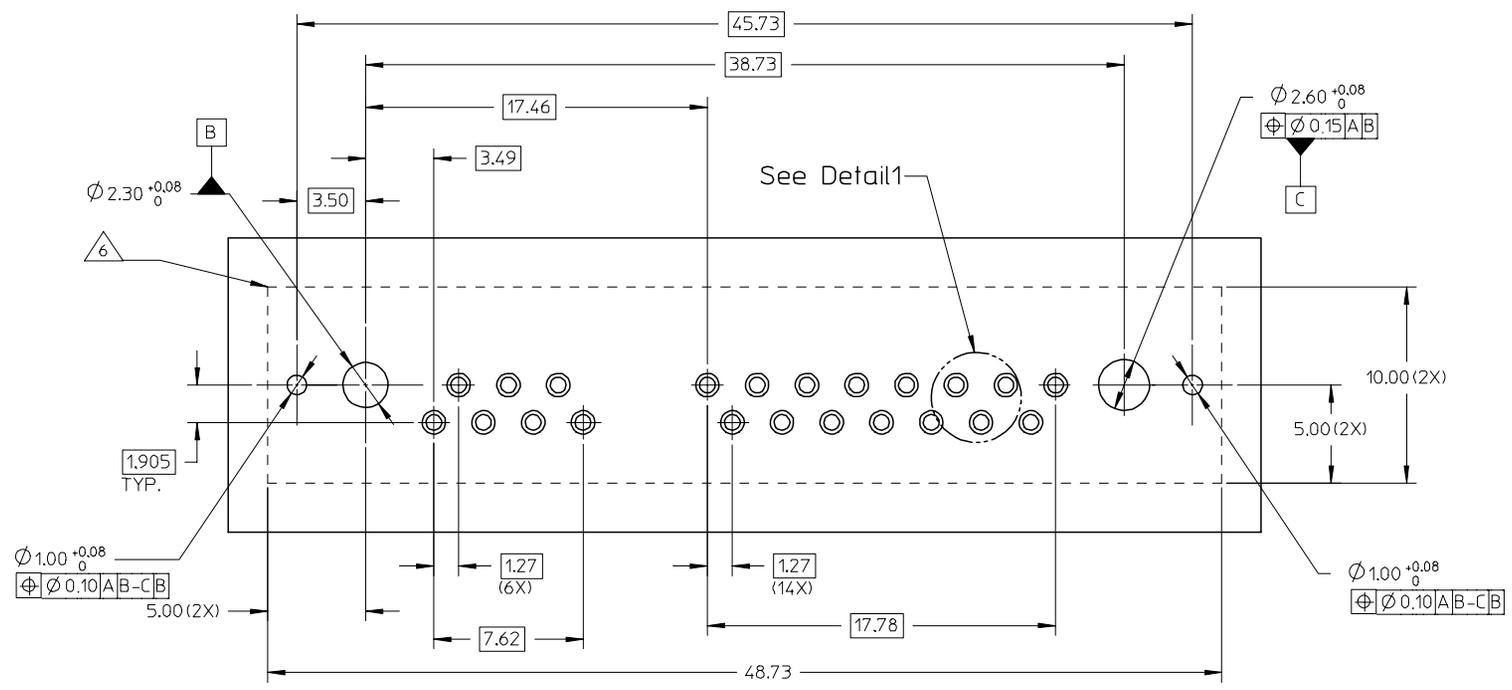


SECTION A-A

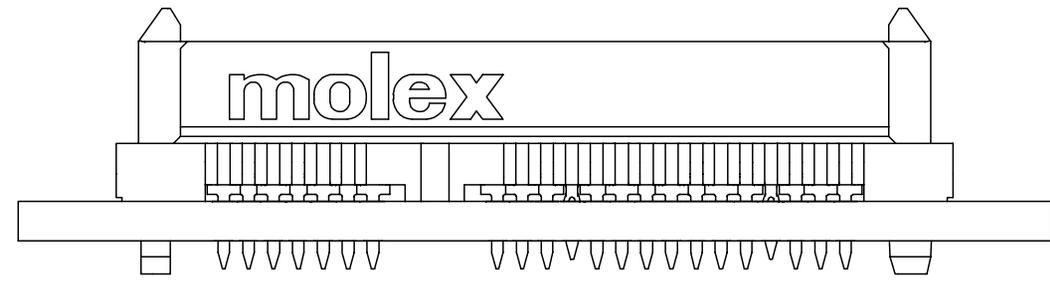
<p>DIM UPDATE EC NO: S2008-0237 DRWN:KLLM CHKD:CGOH APPR:KCLING</p>	<p>2007/09/20 2007/09/20 2007/09/20</p>	<p>DESCRIPTION REV</p>	<p>QUALITY SYMBOLS ▽=0 ◻=0</p>	<p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p>		<p>DIMENSION STYLE MM ONLY</p>		<p>SCALE NTS</p>	<p>DESIGN UNITS METRIC</p>	<p>THIRD ANGLE PROJECTION</p>	
				<p>4 PLACES ± --- ± ---</p>	<p>3 PLACES ± --- ± ---</p>	<p>DRAWN BY DKOH</p>	<p>DATE 2002/07/01</p>	<p>TITLE SERIAL ATA BACKPLANE PRESS-FIT STD HEIGHT RECEPTACLE</p>			
				<p>2 PLACES ± 0.20 ± ---</p>	<p>1 PLACE ± --- ± ---</p>	<p>CHECKED BY KCLING</p>	<p>DATE 2002/07/05</p>				
				<p>ANGULAR ± 3 °</p>		<p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>	<p>APPROVED BY SKTOH</p>	<p>DATE 2002/07/05</p>	<p>MATERIAL NO. 87701-1001</p>	<p>DOCUMENT NO. SD-87701-013</p>	<p>SHEET NO. 2 OF 4</p>

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Detail1
SCALE 10:1



RECOMMENDED PCB LAYOUT

DIM UPDATE EC NO: S2008-0237 DRWN:KLLM CHKD:CGOH APPR:KCLING 2007/09/20 2007/09/20 2007/09/20	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	DIMENSION STYLE MM ONLY DRAWN BY DATE DKOH 2002/07/01 CHECKED BY DATE KCLING 2002/07/05 APPROVED BY DATE SKTOH 2002/07/05	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION	SERIAL ATA BACKPLANE PRESS-FIT STD HEIGHT RECEPTACLE MOLEX INCORPORATED
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. 87701-1001	DOCUMENT NO. SD-87701-013	SHEET NO. 3 OF 4	
	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
	C2				

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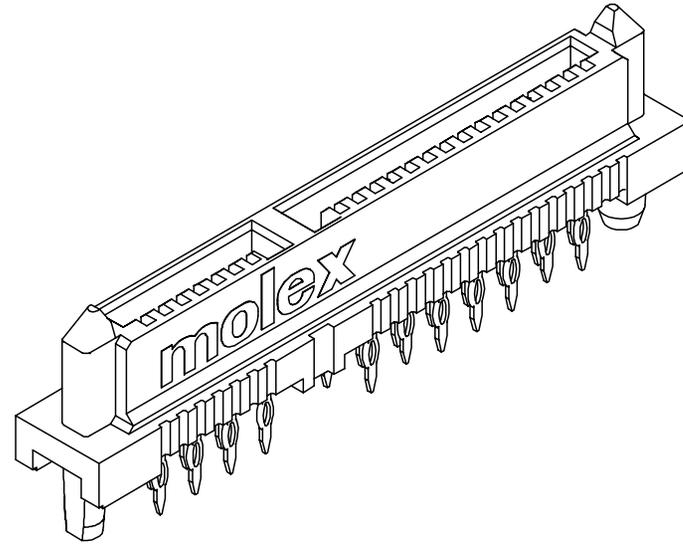
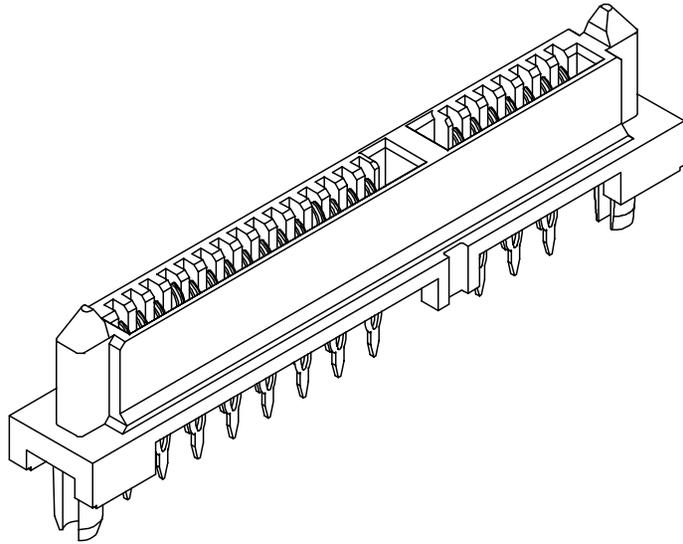
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DIM UPDATE EC NO: S2008-0237 DRWN:KLLIM CHKD:CGOH APPR:KCLING	2007/09/20 2007/09/20 2007/09/20	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY DKOH	DATE 2002/07/01	TITLE SERIAL ATA BACKPLANE PRESS-FIT STD HEIGHT RECEPTACLE				
			4 PLACES ± ---	± ---	CHECKED BY KCLING	DATE 2002/07/05					
			3 PLACES ± ---	± ---	APPROVED BY SKTOH	DATE 2002/07/05	MOLEX INCORPORATED				
		2 PLACES ± 0.20	± ---	MATERIAL NO. 87701-1001		DOCUMENT NO. SD-87701-013		SHEET NO. 4 OF 4			
		1 PLACE ± ---	± ---	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			
REV		DESCRIPTION									
C2											

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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

Skype отдела продаж:

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