

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0785280001

Status:

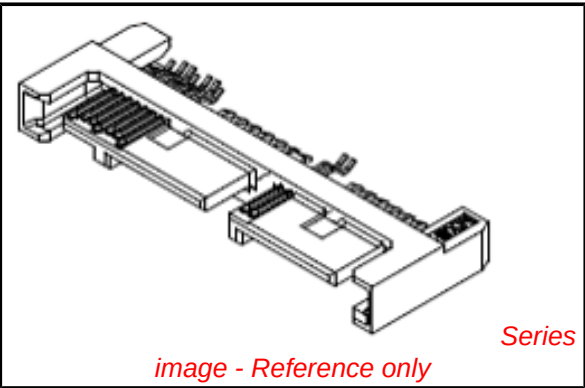
Active

Description:

0.80mm(.031"), 1.27mm(.050") Micro SAS Plug, Right Angle, Straddle Mount, with drive holder, 0.76µm (30µ") Gold (Au) Plating, 23 Circuits, Halogen free, Lead free

Documents:	
3D Model	Product Specification PS-78528-001 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR19980
UL	E29179
General	
Product Family	I/O Connectors
Series	78528
Application	Board-to-Board
Comments	Drive holder feature in housing to support drive casing (refer to isometric picture in Sales drawing); housing is not flush but has step
Component Type	Plug
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	Male
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	Horizontal
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.039 In
PCB Thickness Recommended (mm)	1.00 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)	75
Plating min: Termination (µm)	1.91
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	2



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

78528Series

Mates With

78395 , 78396 , 78495 Micro SAS Receptacles

Temperature Range - Operating	0°C to +55°C
Termination Interface: Style	Straddle Mount
Waterproof / Dustproof	No
Wire Size AWG	N/A

Electrical

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

Material Info

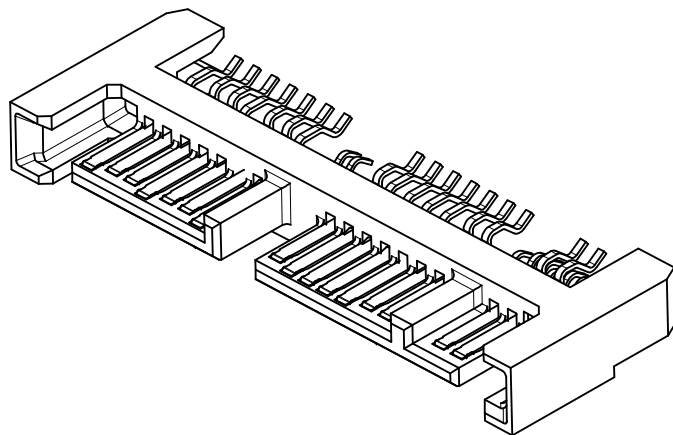
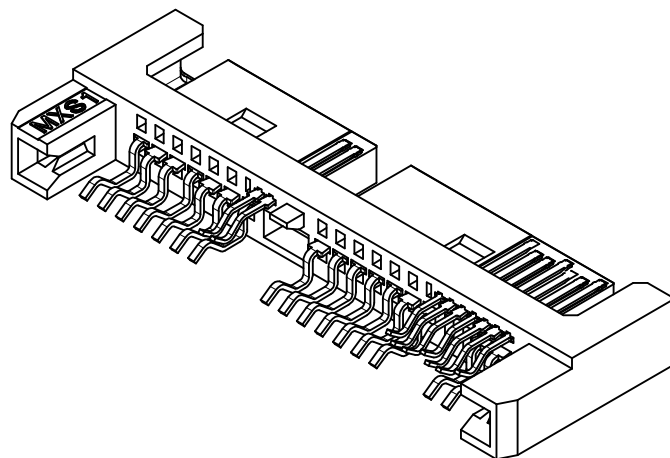
Reference - Drawing Numbers

Packaging Specification	PK-78528-001
Product Specification	PS-78528-001
Sales Drawing	SD-78528-001

This document was generated on 05/17/2010

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10 9 8 7 6 5 4 3 2 1



NOTES:

1. MATERIAL:

HOUSING: LCP, GLASS FILLED, UL 94V-0, BLACK
TERMINAL: COPPER ALLOY

2. FINISHES:

CONTACT: 0.76 μ m MIN GOLD OVER
1.27 μ m MIN. NICKEL UNDERPLATE
SOLDERTAIL: 1.91 μ m MIN TIN OVER
1.27 μ m MIN. NICKEL UNDERPLATE

3. PRODUCT SPECIFICATION: PS-78528-001

4. PACKAGING SPECIFICATION: PK-78528-001

5. DATE CODE FORMAT: YYDDD

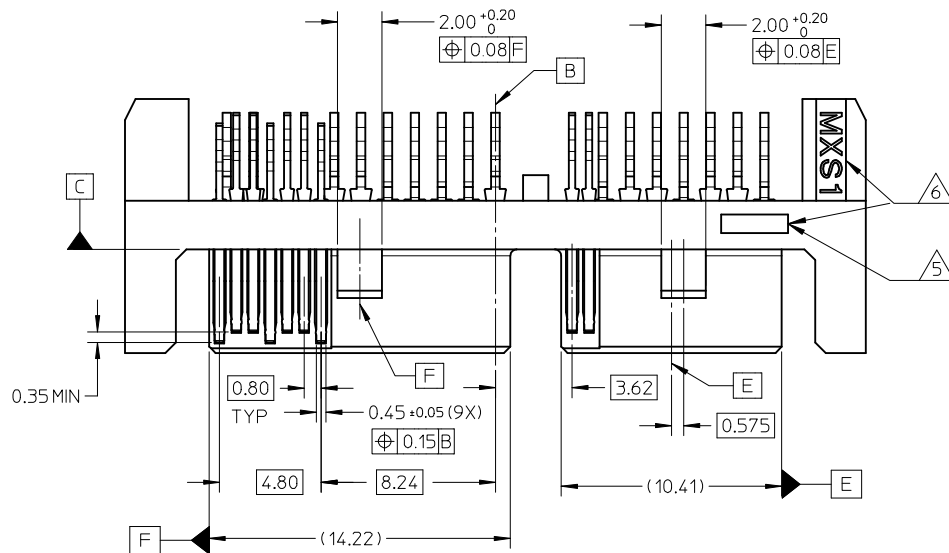
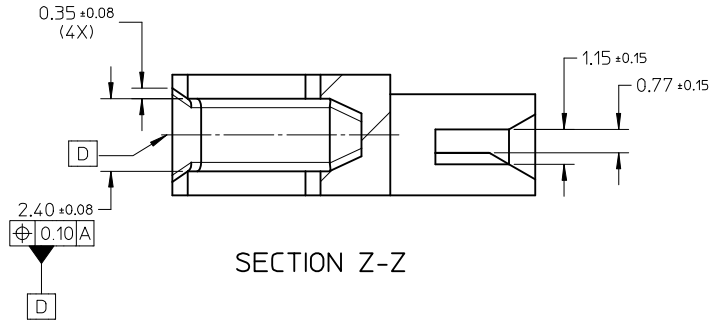
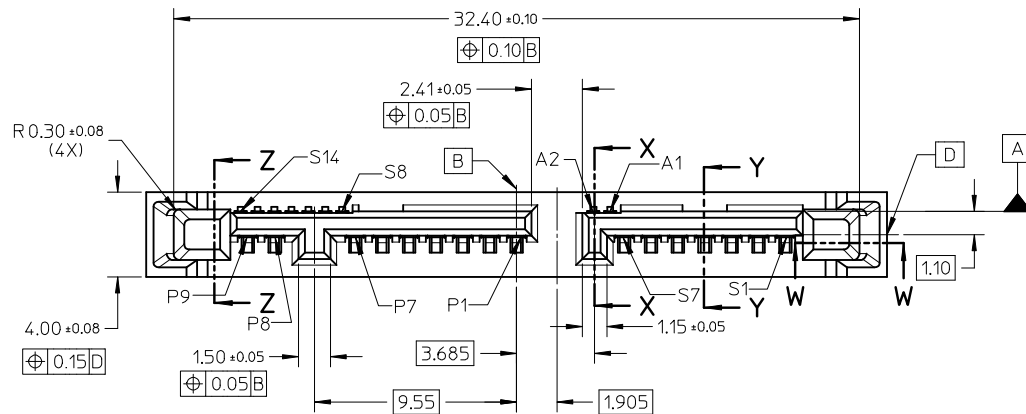
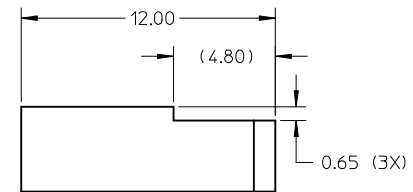
6. MOLEX LOGO AND DATE CODE LOCATED APPROXIMATELY AS SHOWN

7. MATES WITH: MOLEX MICROSAS & MICROSATA RECEPTACLE

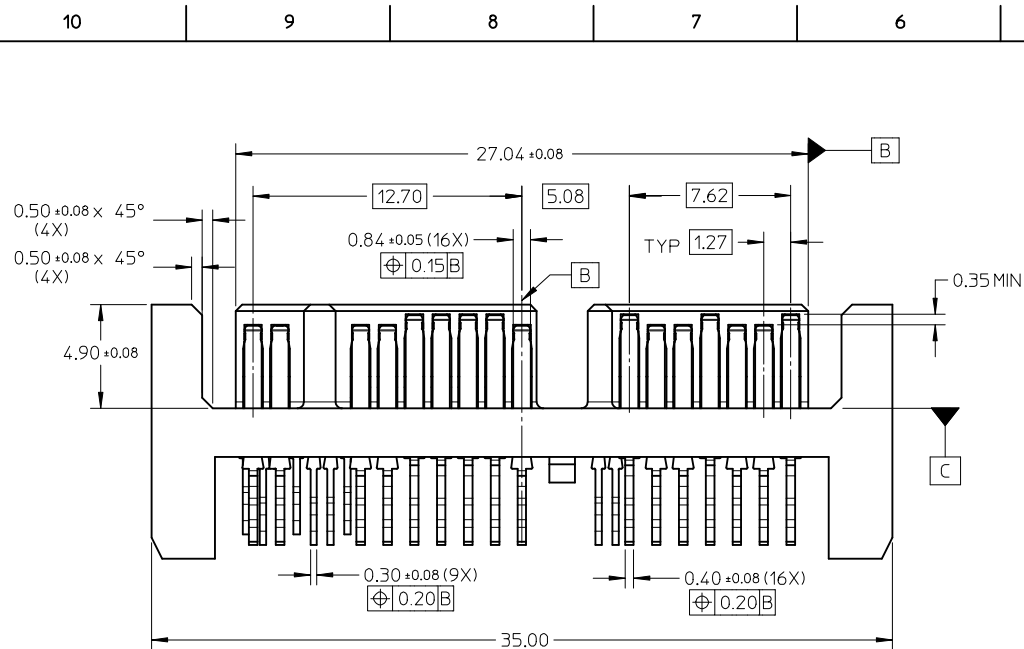
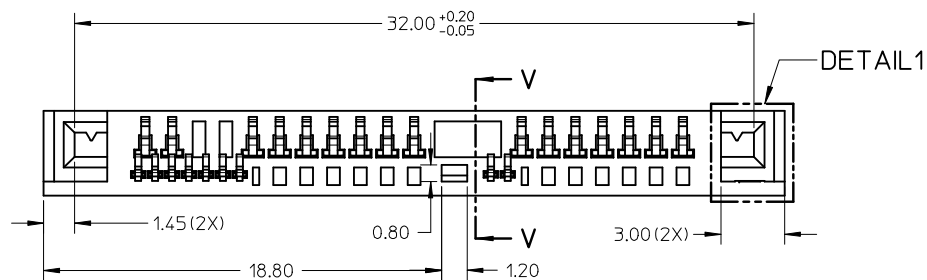
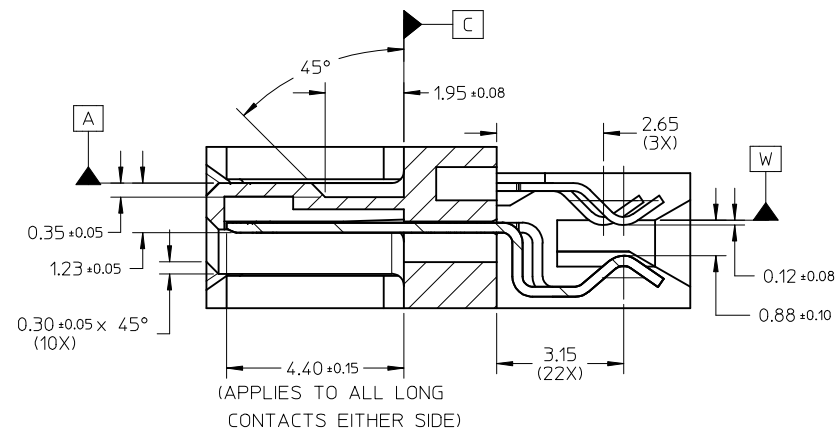
8. THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE
FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM,
HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND
POLYBROMINATED DIPHENYLS ETHERS

9. NON FUNCTIONAL CORING MAY VARY

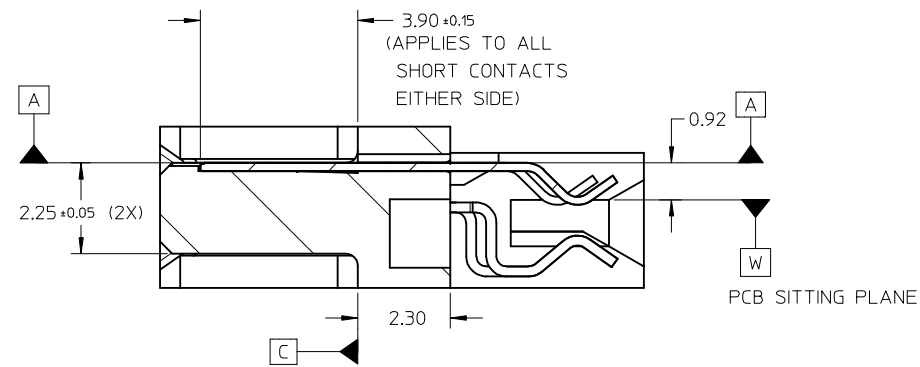
UPDATE VIEWS ON MOLX Logo EC NO: S2010-0310 DRWNG:GMENARLY 2009/10/23 CHKD:CGOH 2009/10/26 APPR:BOKOK 2009/10/27	DESCRIPTION REV	QUALITY SYMBOLS <div><div><div>▽_A=0</div><div>▽_G=0</div><div>▽_P=0</div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	<div><div></div><div></div></div> THIRD ANGLE PROJECTION	
			<div><div>mm</div><div>INCH</div></div>		DRAWN BY DATE		TITLE MICROSAS PLUG R/A, STRADDLE MOUNT VELA			
			<div>4 PLACES ± --- ± ---</div> <div>3 PLACES ± --- ± ---</div> <div>2 PLACES ± 0.20 ± ---</div> <div>1 PLACE ± --- ± ---</div>		<div>CHECKED BY DATE</div> <div>CGOH 2009/09/03</div>					
			ANGULAR ± 3 °		APPROVED BY DATE		<div><div><div></div></div>MOLEX INCORPORATED</div>			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. 78528-0001		DOCUMENT NO. SD-78528-001		SHEET NO. 1 OF 6				
A1			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



<div>UPDATE VIEWS ON MXS LOGO EC NO: S2010-0310 DRWN:GMENARLY 2009/10/23 CHKD:CGOH 2009/10/26 APPR:BOKOK 2009/10/27</div> <div>A1</div>	DESCRIPTION REV	<div>QUALITY SYMBOLS</div> <div><div><div>F_A=0</div><div>F_G=0</div><div>F_P=0</div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY GMENARLY	DATE 2009/07/16	TITLE MICROSAS PLUG R/A, STRADDLE MOUNT VELA				
			4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2009/09/03					
			3 PLACES	± ---	± ---							
			2 PLACES	± 0.20	± ---	APPROVED BY BOKOK		DATE 2009/09/03	 MOLEX INCORPORATED	SHEET NO. 2 OF 6		
			1 PLACE	± ---	± ---	ANGULAR ± 3 °		MATERIAL NO. 78528-0001				DOCUMENT NO. SD-78528-001
			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					

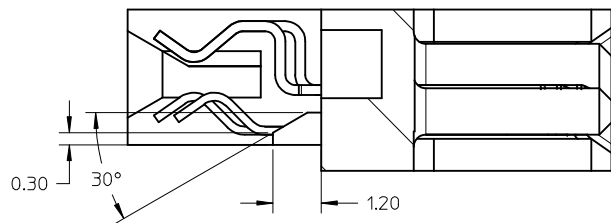


SECTION Y-Y

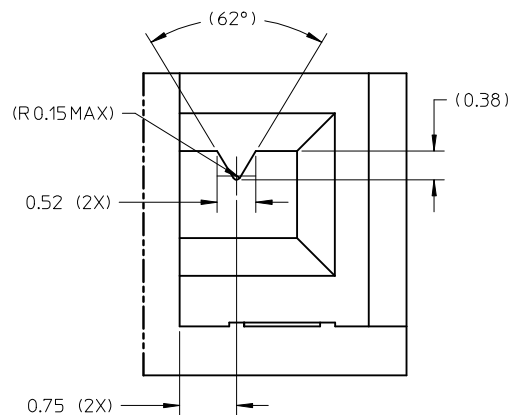


SECTION X-X

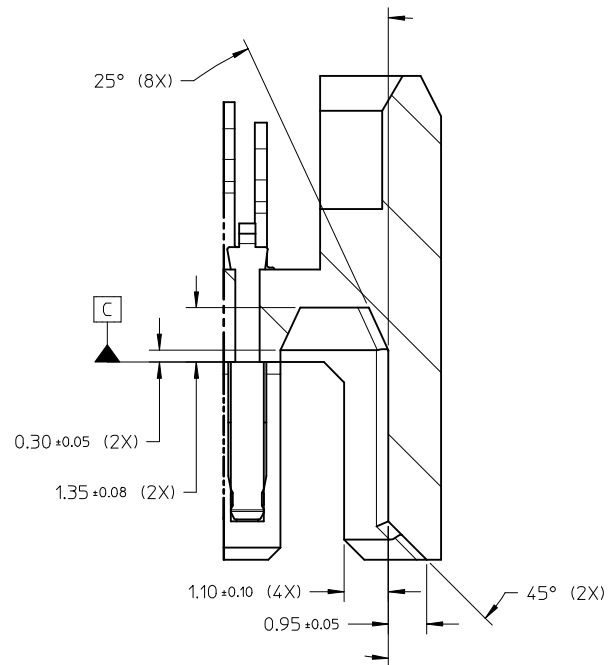
UPDATE VIEWS ON MXS LOGO EC NO: S2010-0310 2009/10/23 DRAWN:GMENARLY 2009/10/26 CHKD:CGOH 2009/10/27 APPR:BOKOK	DESCRIPTION REV	QUALITY SYMBOLS <div><div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div><div></div></div><div><div></div></div><div><div></div></div></div><div><div><div></div></div><div><div></div></div><div><div></div></div></div></div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY GMENARLY	DATE 2009/07/16	TITLE MICROSAS PLUG R/A, STRADDLE MOUNT VELA				
			4 PLACES	± ---	± ---	CHECKED BY CGOH	DATE 2009/09/03					
			3 PLACES	± ---	± ---							
			2 PLACES	± 0.20	± ---			MOLEX INCORPORATED				
			1 PLACE	± ---	± ---							
		ANGULAR ± 3 °		APPROVED BY BOKOK		DATE 2009/09/03	molex					
				MATERIAL NO. 78528-0001		DOCUMENT NO. SD-78528-001		SHEET NO. 3 OF 6				
A1		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						



SECTION V-V

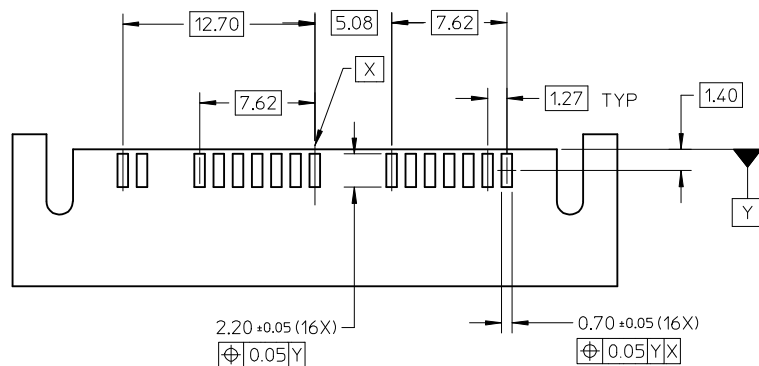


DETAIL1

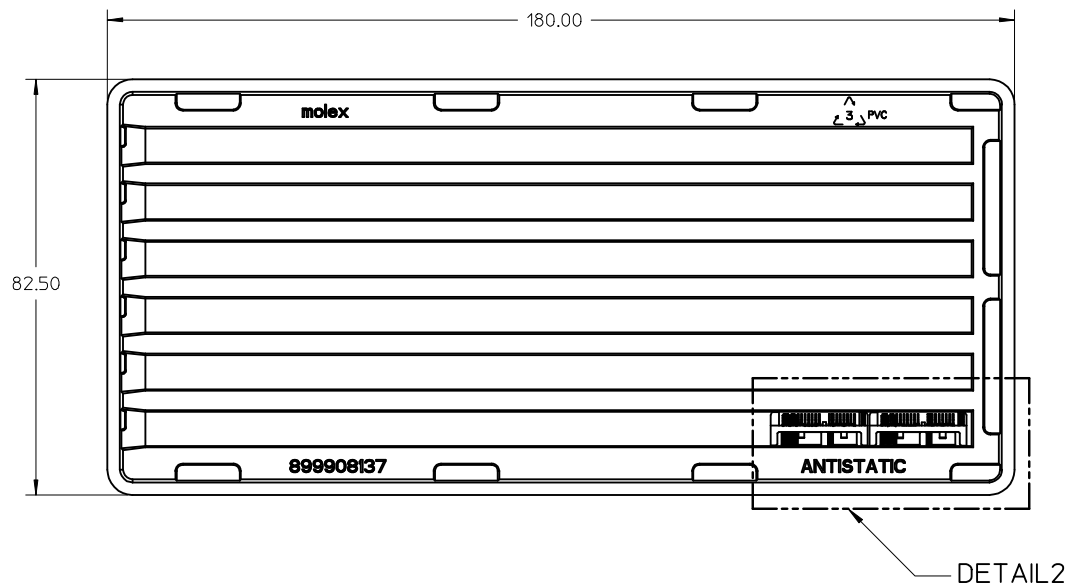


SECTION W-W
PARTIAL1

<div>UPDATE VIEWS ON MXS LOGO</div> <div>2009/10/23 EC NO: S2010-0310</div> <div>2009/10/26 DRWNG:GMENARLY</div> <div>2009/10/27 CHKD:CGOH</div> <div>2009/10/27 APPR:BOKOK</div> <div>A1</div>			QUALITY SYMBOLS	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE		SCALE	DESIGN UNITS	<div><div></div><div></div></div> THIRD ANGLE PROJECTION															
									MM ONLY		NTS	METRIC																
						<div><div><div>F</div><div>A</div></div>=0</div> <div><div><div>F</div><div>G</div></div>=0</div> <div><div><div>F</div><div>P</div></div>=0</div>	4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE	MICROSAS PLUG R/A, STRADDLE MOUNT VELA															
														3 PLACES	± ---	± ---	CHECKED BY	DATE										
																			2 PLACES	± 0.20	± ---	CGOH	2009/09/03					
																								1 PLACE	± ---	± ---	APPROVED BY	DATE
						ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.	SHEET NO.																
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			78528-0001		SD-78528-001	4 OF 6																						
			SIZE A3																									



PACKAGING INFORMATION



PART ORIENTATION IN TRAY



DETAIL2

NOTES:

1. MATERIAL : PVC - CLEAR, ANTISTATIC
2. QTY PER TRAY : 54PCS

<div>UPDATE VIEWS ON</div> <div>MXS Logo</div> <div>EC NO: S2010-0310</div> <div>DRWNG:GMENARLY 2009/10/23</div> <div>CHKD:CGOH 2009/10/26</div> <div>APPR:BOKOK 2009/10/27</div> <div>A1</div>		DESCRIPTION	REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				<div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div>	<div>mm</div> <div>INCH</div>	<div>DRAWN BY</div> <div>DATE</div>	<div>TITLE</div> <div>MICROSAS PLUG R/A, STRADDLE MOUNT VELA</div>						
				<div>4 PLACES</div> <div>3 PLACES</div> <div>2 PLACES</div> <div>1 PLACE</div>	<div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div> <div><div><div></div></div></div>	<div>CHECKED BY</div> <div>DATE</div>							
				<div>ANGULAR $\pm 3^\circ$</div>	<div>APPROVED BY</div> <div>DATE</div>								
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. 78528-0001		DOCUMENT NO. SD-78528-001		SHEET NO. 6 OF 6		
							SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				