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Part Number: [0785000001](#)
Status: **Active**
Overview: [micro_sata](#)
Description: 1.27mm (.050") Pitch Micro Serial ATA Device Receptacle for 1.8" SSD/HDD, SMT, Vertical, with Pegs and Kapton Tape, 16 Circuits, EmbossedTape on Reel, Lead free

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-78500-001 \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Receptacles
 Series [78500](#)
 Application Board-to-Board
 Comments Straight connector base; connector width: 4.15mm (.172")
 Overview [micro_sata](#)
 Product Name Micro Serial ATA, Serial ATA

Physical

Circuits (Loaded) 16
 Circuits (maximum) 16
 Color - Resin Black
 Durability (mating cycles max) 500
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part Yes
 Keying to Mating Part Yes
 Lock to Mating Part No
 Material - Metal Copper Alloy
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 1
 Orientation Vertical
 PCB Locator Yes
 PCB Retention Yes
 Packaging Type Embossed Tape on Reel
 Pitch - Mating Interface (in) 0.050 In
 Pitch - Mating Interface (mm) 1.27 mm
 Pitch - Term. Interface (in) 0.050 In
 Pitch - Term. Interface (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
 Stackable No
 Temperature Range - Operating 0°C to +55°C
 Termination Interface: Style Surface Mount

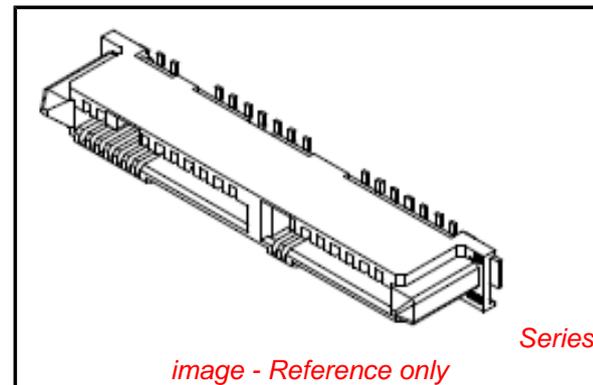


image - Reference only

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

[78500Series](#)

Mates With

[78103](#) , [78283](#) and [78285](#) Micro SATA Device Plugs

Electrical

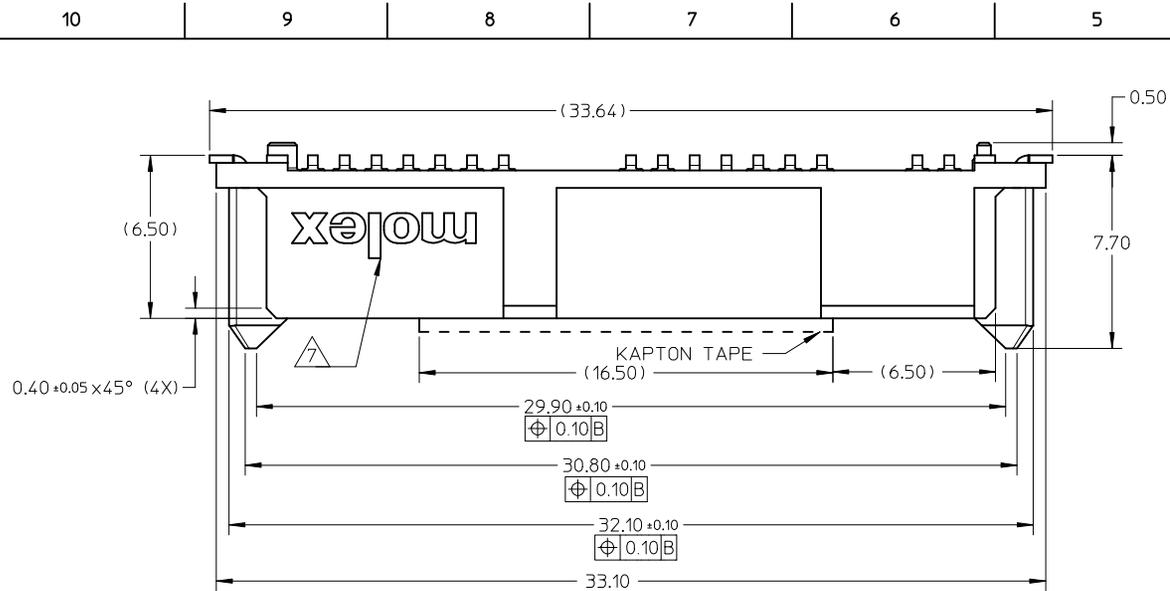
Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
Voltage - Maximum	30V

Material Info**Reference - Drawing Numbers**

Packaging Specification	PK-78500-001
Product Specification	PS-78500-001
Sales Drawing	SD-78500-001

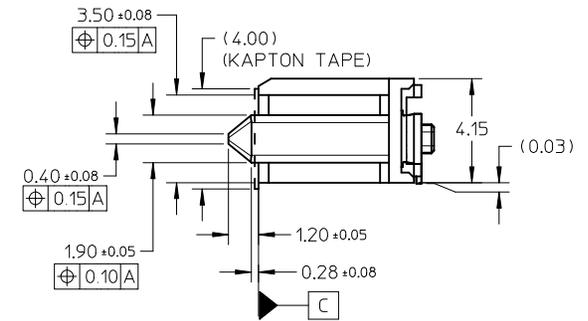
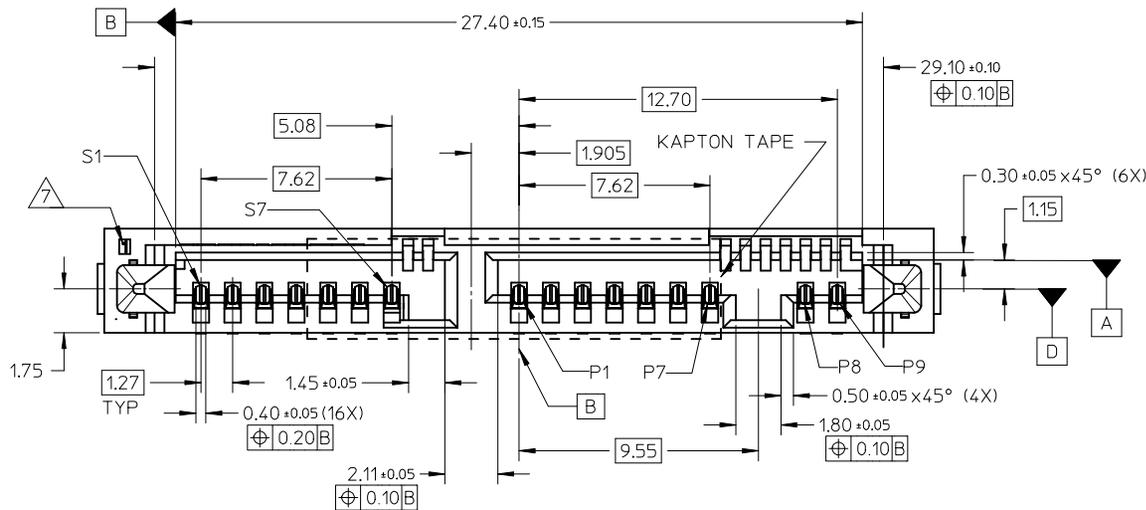
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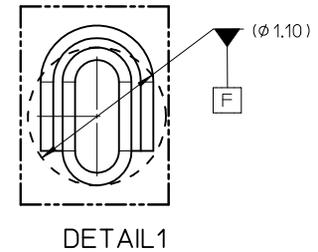
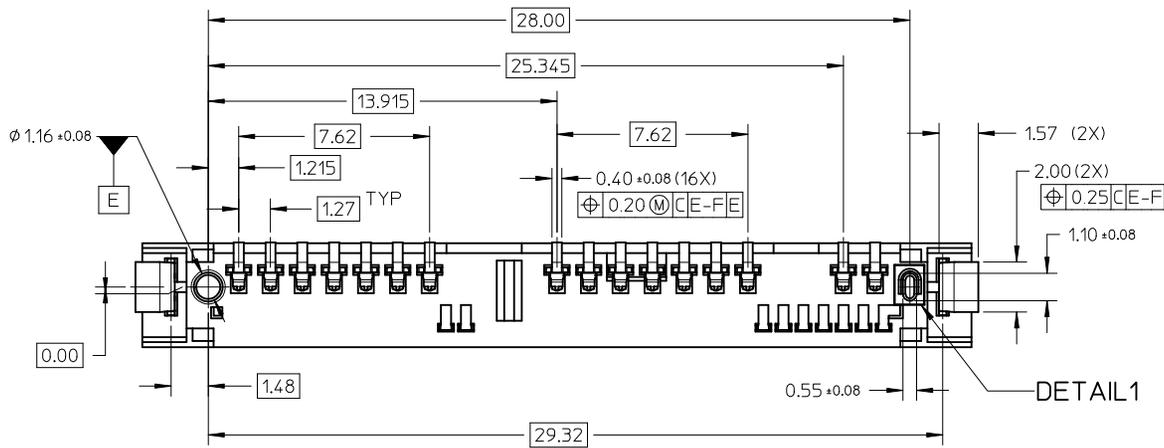
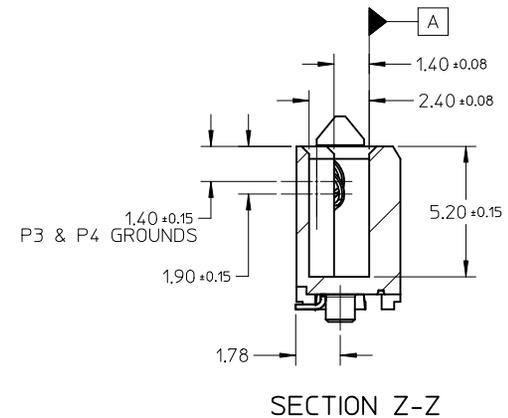
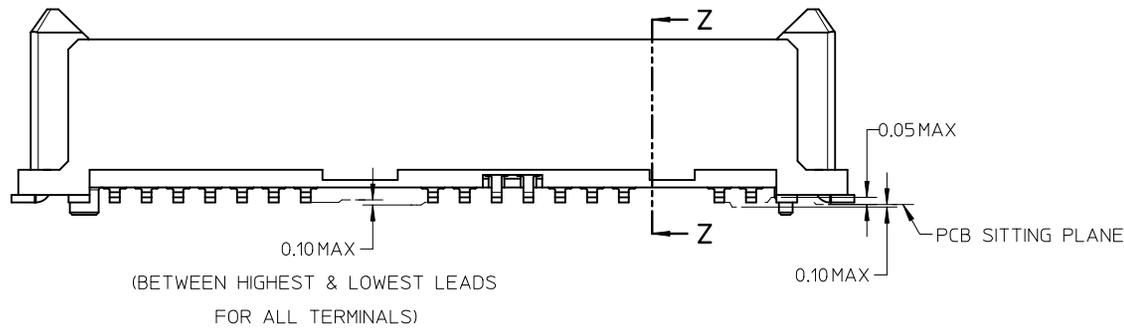
NOTES:

- MATERIAL :
HOUSING: LCP, GLASS FILLED, UL 94V-0, BLACK
TERMINAL/SOLDER TAB : COPPER ALLOY
- PLATING :
TERMINAL :
- CONTACT :0.764µm MIN. SELECTIVE GOLD OVER
1.27µm MIN. NICKEL UNDERPLATE
- SOLDER TAIL :2.54µm MIN. TIN OVER
1.27µm MIN. NICKEL UNDERPLATE
SOLDER TAB : 2.54µm MIN. TIN OVER
1.91µm MIN. NICKEL UNDERPLATE
- PRODUCT SPECIFICATION : PS-78500-001
- PACKAGING SPECIFICATION : PK-78500-001
- MATES WITH : MOLEX MICRO SATA PLUG
- THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYLS ETHERS.
△ MOLEX LOGO AND CAVITY NUMBER LOCATED APPROXIMATELY AS SHOWN
- NON FUNCTIONAL CORING MAY VARY



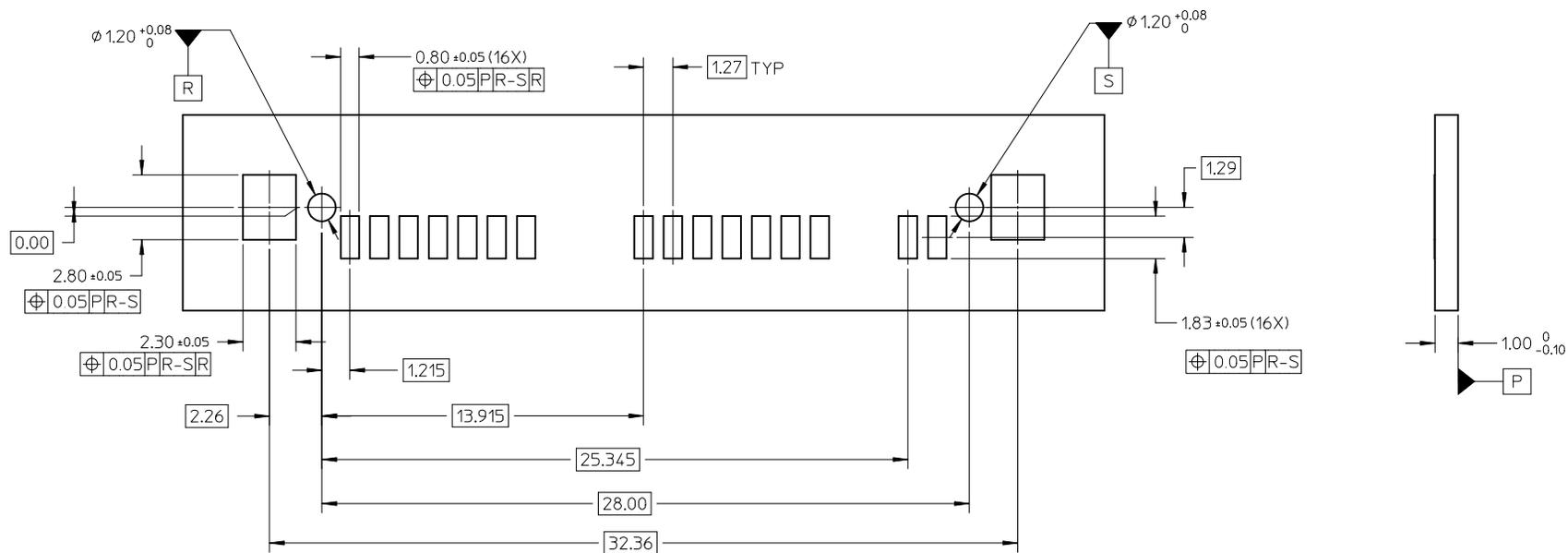
CHANGE PCS/REEL EC NO: S2010-0549 DRWN:WJAP 2010/01/08 CHKD:GMENARLY 2010/01/08 APPR:BOKOK 2010/01/08	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
		▽ _A =0	mm	INCH	MM ONLY		NTS	METRIC			
		▽ _E =0	4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE				
		▽ _P =0	3 PLACES ± ---	± ---	GMENARLY	2009/04/06	MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD				
		2 PLACES ± 0.20	± ---	CHECKED BY	DATE	MOLEX INCORPORATED					
		1 PLACE ± ---	± ---	CGOH	2009/04/16	MOLEX INCORPORATED					
		ANGULAR ± 3 °		APPROVED BY	DATE	MOLEX INCORPORATED					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		BOKOK	2009/04/16	MOLEX INCORPORATED					
				MATERIAL NO.	78500-0001	DOCUMENT NO.		SD-78500-001			
				SIZE	A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
						SHEET NO.		1 OF 4			

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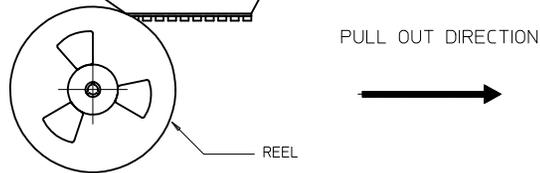
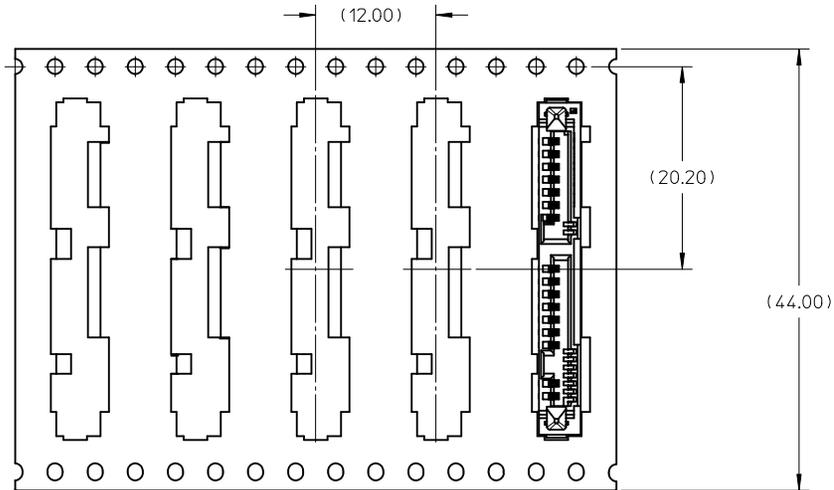
CHANGE PCS/REEL EC NO: S2010-0549 DRWN:WJYAP 2010/01/08 CHKD:GMENARLY 2010/01/08 APPR:BOKOK 2010/01/08	QUALITY SYMBOLS $F_A=0$ $F_C=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	DRAWN BY GMENARLY	DATE 2009/04/06	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD			
		ANGULAR ± 3 °				CHECKED BY CGOH	DATE 2009/04/16	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				APPROVED BY BOKOK	DATE 2009/04/16	MATERIAL NO. 78500-0001	DOCUMENT NO. SD-78500-001	SHEET NO. 2 OF 4	

9 8 7 6 5 4 3 2 1



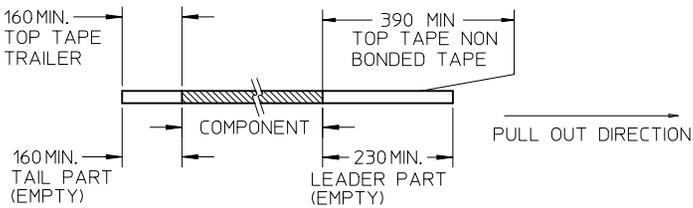
RECOMMENDED PCB LAYOUT

CHANGE PCS/REEL EC NO: S2010-0549 DRWN:WJAP 2010/01/08 CHKD:GMENARLY 2010/01/08 APPR:BOKOK 2010/01/08	QUALITY SYMBOLS $F_A=0$ $F_C=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	DIMENSION STYLE MM ONLY DRAWN BY GMENARLY DATE 2009/04/06 CHECKED BY CGOH DATE 2009/04/16 APPROVED BY BOKOK DATE 2009/04/16	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. 78500-0001	DOCUMENT NO. SD-78500-001	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			
	REV A1				

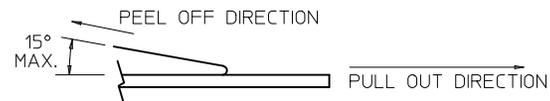


NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20 - 80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- 3. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- 4. TAPE AND REEL QUANTITY : 450 PCS/ REEL.
- 5. THE TAPE IS TREATED FOR ANTI-STATIC.

CHANGE PCS/REEL EC NO: S2010-0549 DRWN:WJAP 2010/01/08 CHKD:GMENARLY 2010/01/08 APPR:BOKOK 2010/01/08	A1	REV	QUALITY SYMBOLS	$F_A=0$	$F_C=0$	$F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
						mm		INCH	MM ONLY	NTS	METRIC		
						4 PLACES		± ---	± ---	DRAWN BY	DATE		TITLE
						3 PLACES		± ---	± ---	GMENARLY	2009/04/06		MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD
			2 PLACES	± 0.20	± ---	CHECKED BY	DATE						
			1 PLACE	± ---	± ---	CGOH	2009/04/16						
			ANGULAR ± 3 °			APPROVED BY	DATE	MOLEX INCORPORATED					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			BOKOK	2009/04/16	MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
						78500-0001	78500-0001	SD-78500-001	4 OF 4				
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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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