

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0465577145](#)
Status: **Active**
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim Receptacle, 100 Circuits, 5.00mm (.196") Unmated Height, 4 Rows, With Pegs, Solder Charge™ Lead Free

Documents:
[3D Model](#) [Product Specification PS-45970-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

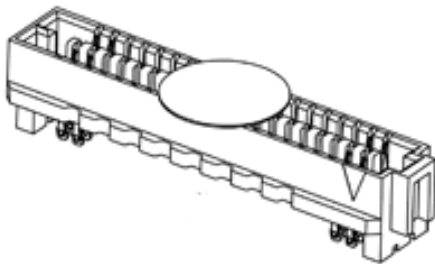
CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	46557
Application	Board-to-Board
Product Name	SEARAY*

Physical

Circuits (Loaded)	100
Circuits (maximum)	100
Circuits Detail	100
Color - Resin	Black
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	No
Material - Metal	Copper Alloy
Material - Plating Mating	Gold, Nickel
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	4
Orientation	Vertical
PC Tail Length (in)	0.086 In
PC Tail Length (mm)	2.18 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
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)	0.75
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Robotic Placement	Pick and Place Cap
Stackable	No
Surface Mount Compatible (SMC)	No



Series

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
[46557Series](#)

Mates With
[46556](#) Searay* Slim Plug Connector

Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	1A
Grounding to PCB	No
Voltage - Maximum	240V AC

Solder Process Data

Duration at Max. Process Temperature (seconds)	20
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Product Specification	PS-45970-001
Sales Drawing	SD-46557-001

*SEARAY is a trademark of Samtec, Inc.

This document was generated on 04/14/2010

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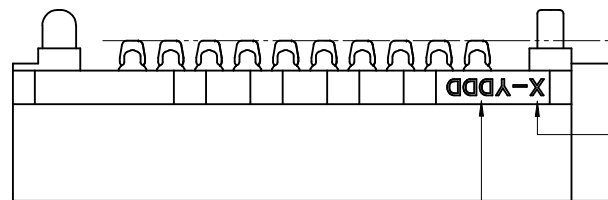
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4

3

2

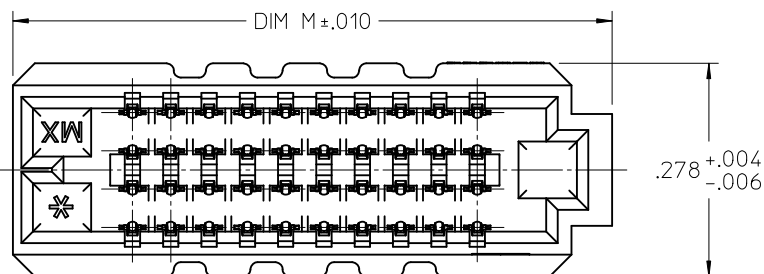
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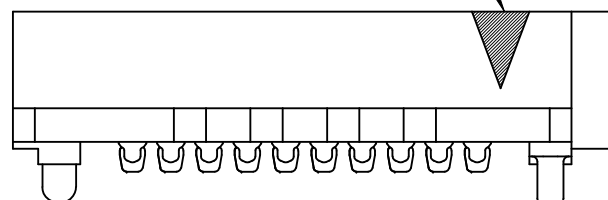
$\frac{\text{D}}{.006}$ ACROSS ALL
SOLDER CHARGES

LEAD CODE
1 = TIN
2 = TIN/LEAD

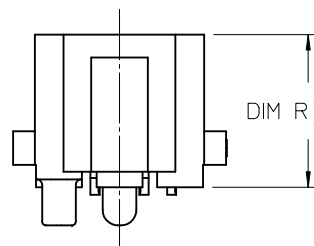
DATE CODE



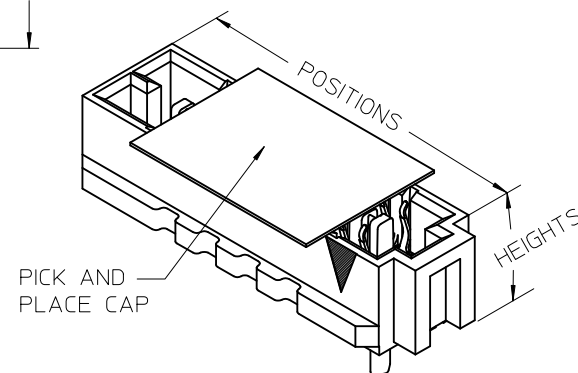
ROW 1 / CKT 1 ID



.050 TYP
TERMINAL PITCH



UNMATED HEIGHT
DIM R $\frac{+}{.002}$ $\frac{-}{.004}$



POSITION	DIM M	$\frac{\text{D}}{.006}$
10	.782	.006
15	1.032	.006
20	1.282	.006
25	1.532	.006
30	1.782	.006
35	2.032	.006
40	2.282	.006
45	2.532	.009
50	2.782	.009

UPDATED NOTE 2

EC NO: UCP2010-2270

DRWN: TREGORI 2010/03/05

CHKD: JCOMERC I 2007/05/21

APPR: JCOMERC I 2010/03/05

DESCRIPTION

REV

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	$\pm$ ---	$\pm$ ---
3 PLACES	$\pm$ ---	$\pm$.005
2 PLACES	$\pm$ ---	$\pm$ ---
1 PLACE	$\pm$ ---	$\pm$ ---

ANGULAR $\pm$ ---°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
INCH ONLY

DRAWN BY	DATE
TGREGORI	2007/05/21
CHECKED BY	DATE
JCOMERC I	2007/05/21
APPROVED BY	DATE
JCOMERC I	2010/03/05

MATERIAL NO.

SEE CHART

SIZE
A

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

SEARAY SLIM
RECEPTACLE ASSEMBLY
.050 PITCH
MOLEX INCORPORATED

DOCUMENT NO.

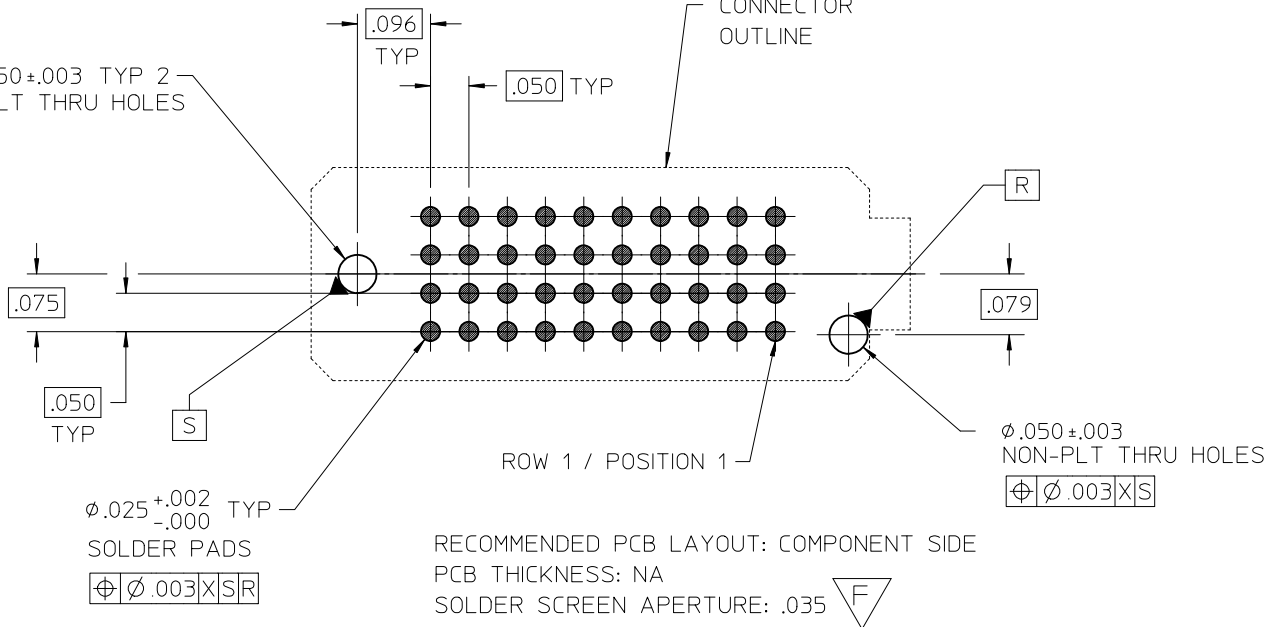
SD-46557-001

SHEET NO.

1 OF 4

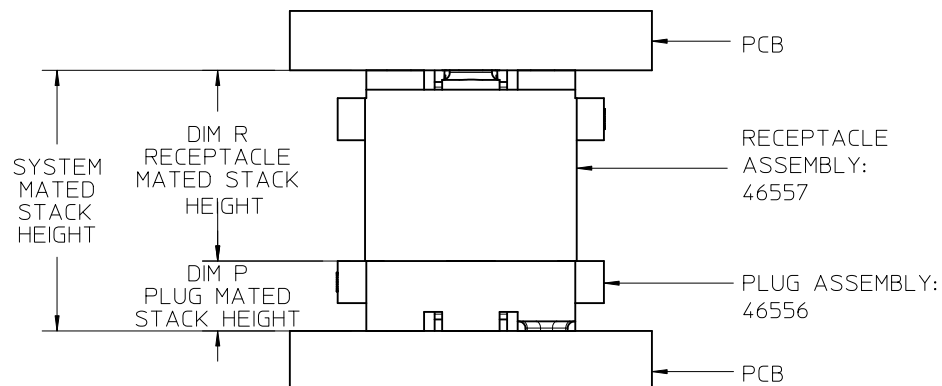
6
5
4
3
2
1

φ.050±.003 TYP 2
NON-PLT THRU HOLES



	MM	DIM R RECEPTACLE STACK HEIGHT				
		5.0	6.0	6.5	7.5	8.0
DIM P PLUG STACK HEIGHT	2.0	7.0	8.0	8.5	9.5	10.0
	3.0	8.0	9.0	9.5	10.5	11.0
	3.5	8.5	9.5	10.0	11.0	11.5
	2.5	7.5	8.5	9.0	10.0	10.5
	4.5	9.5	10.5	11.0	12.0	12.5
	5.0	10.0	11.0	11.5	12.5	13.0
	7.0	12.0	13.0	13.5	14.5	15.0

STACK HEIGHTS GIVEN IN MM FOR REF ONLY



SEE SHEET 1
EC NO: UCP2010-2270
DRWN: TGREGORI 2010/03/05
CHKD: JCOMERC I 2007/05/21
APPR: JCOMERC I 2010/03/05

DESCRIPTION

REV

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ± ---°

DRAFT WHERE APPLICABLE
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DIMENSION STYLE
INCH ONLY

DRAWN BY	DATE
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JCOMERC I	2007/05/21
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JCOMERC I	2010/03/05

MATERIAL NO.

SEE CHART

SIZE
A

SCALE
4:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

SEARAY SLIM
RECEPTACLE ASSEMBLY
.050 PITCH

MOLEX INCORPORATED

DOCUMENT NO.

SD-46557-001

SHEET NO.

2 OF 4

6		5		4		3		2		1																																																																																												
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<table><tr><td rowspan="5">SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2007/05/21 APPR: JCOMERCI 2010/03/05</td><td rowspan="5">DESCRIPTION</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE INCH ONLY</td><td>SCALE 1:1</td><td>DESIGN UNITS INCH</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td></td><td>mm</td><td>INCH</td><td>DRAWN BY TGREGORI</td><td>DATE 2007/05/21</td><td colspan="4" rowspan="3">TITLE SEARAY SLIM RECEPTACLE ASSEMBLY .050 PITCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td><td>CHECKED BY JCOMERCI</td><td>DATE 2007/05/21</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± .005</td><td>APPROVED BY JCOMERCI</td><td>DATE 2010/03/05</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td><td colspan="2">MATERIAL NO. SEE CHART</td><td colspan="2">DOCUMENT NO. SD-46557-001</td><td colspan="2">SHEET NO. 3 OF 4</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td><td colspan="10">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td colspan="2">ANGULAR ± ---°</td><td colspan="11"></td></tr><tr><td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="11"></td></tr><tr><td colspan="2">H</td><td>REV</td><td colspan="10"></td></tr></table>													SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2007/05/21 APPR: JCOMERCI 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			mm	INCH	DRAWN BY TGREGORI	DATE 2007/05/21	TITLE SEARAY SLIM RECEPTACLE ASSEMBLY .050 PITCH				4 PLACES	± ---	± ---	CHECKED BY JCOMERCI	DATE 2007/05/21	3 PLACES	± ---	± .005	APPROVED BY JCOMERCI	DATE 2010/03/05	2 PLACES	± ---	± ---	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-46557-001		SHEET NO. 3 OF 4		1 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										ANGULAR ± ---°													DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													H		REV										
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Данный компонент на территории Российской Федерации

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