

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0465574145](#)
Status: **Active**
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim Receptacle, 160 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

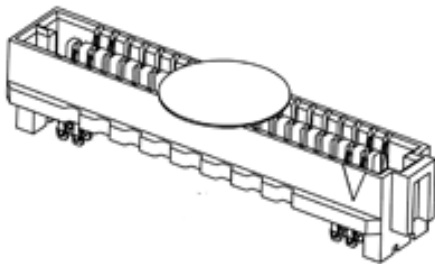
CSA	LR19980
UL	E29179

General

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

Physical

Circuits (Loaded)	160
Circuits (maximum)	160
Circuits Detail	160
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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

6

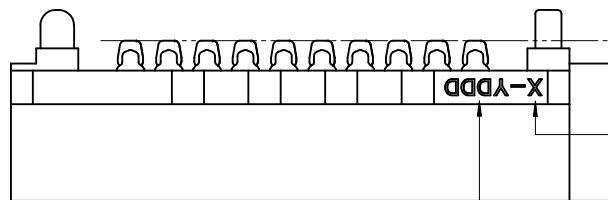
5

4

3

2

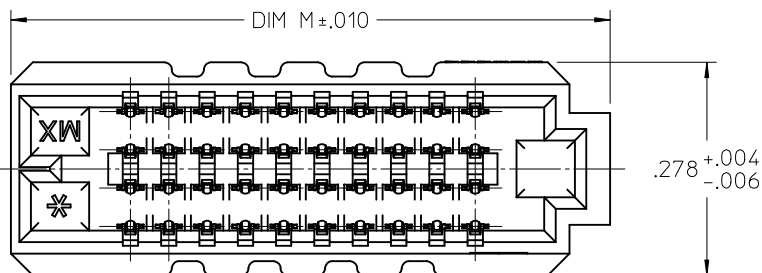
1



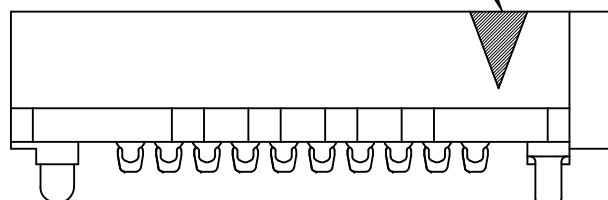
$\frac{\text{D}}{.006}$ ACROSS ALL
SOLDER CHARGES

LEAD CODE
1 = TIN
2 = TIN/LEAD

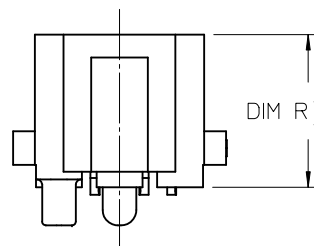
DATE CODE



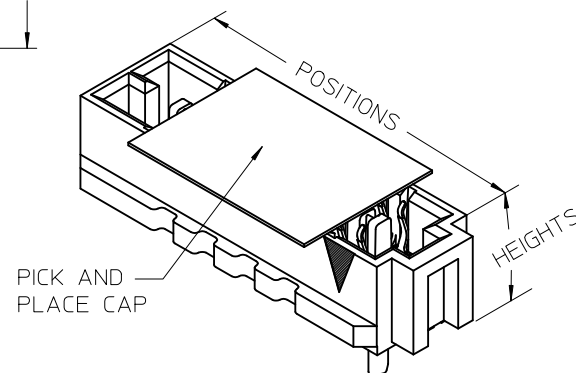
ROW 1 / CKT 1 ID



.050 TYP
TERMINAL PITCH



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



PICK AND
PLACE CAP

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: 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	$\pm$ ---	$\pm$ ---
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

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

5

4

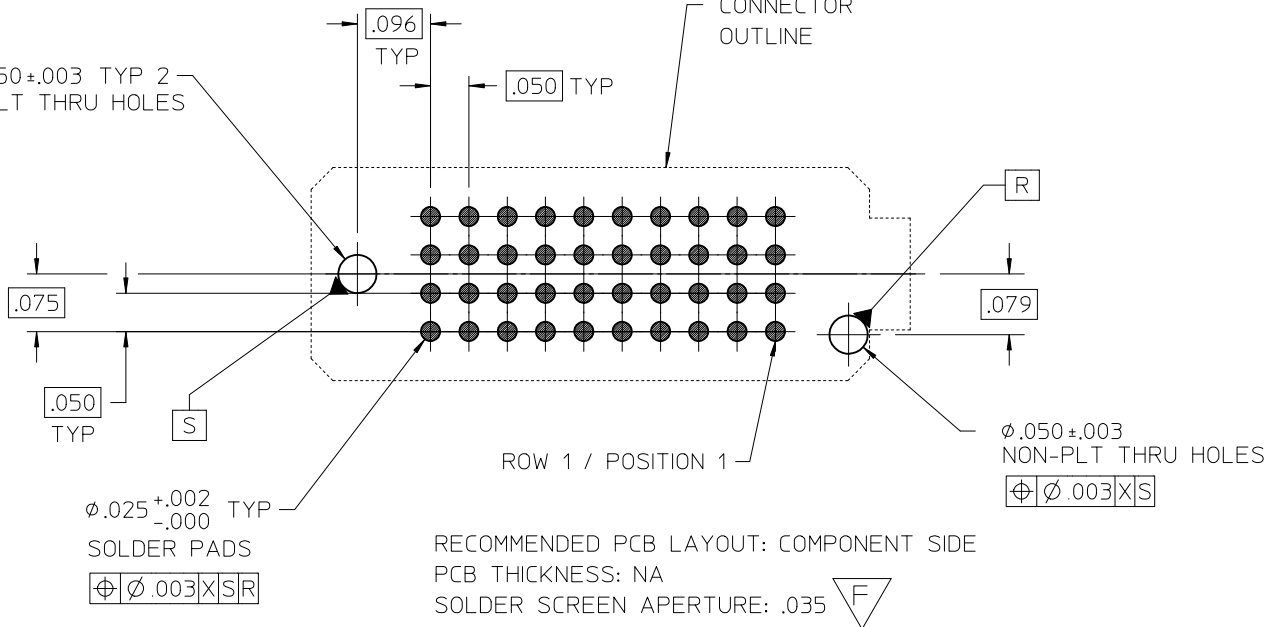
3

2

1

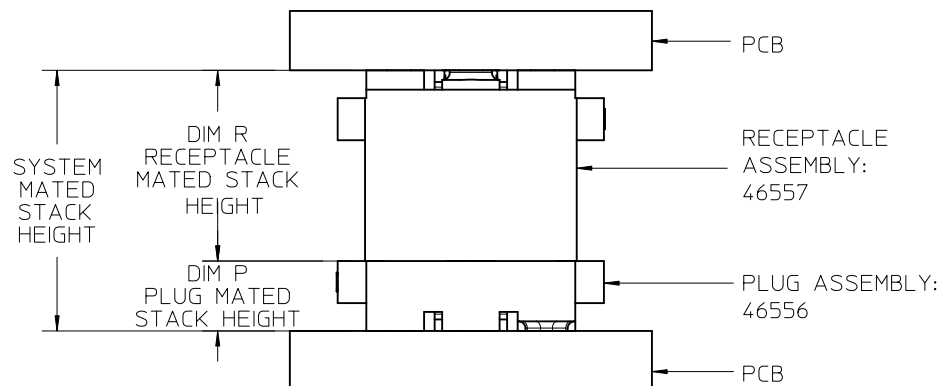
6
5
4
3
2
1

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
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

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	
DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM	
DIM R: HOUSING HEIGHT		.199		.238		.258		.297		.317	
POSITIONS		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO	
10		46557-1145		46557-1245		46557-1345		46557-1445		46557-1545	
20		46557-2145		46557-2245		46557-2345		46557-2445		46557-2545	
30		46557-3145		46557-3245		46557-3345		46557-3445		46557-3545	
40		46557-4145		46557-4245		46557-4345		46557-4445		46557-4545	
50		46557-5145		46557-5245		46557-5345		46557-5445		46557-5545	
15		46557-6145		46557-6245		46557-6345		46557-6445		46557-6545	
25		46557-7145		46557-7245		46557-7345		46557-7445		46557-7545	
35		46557-8145		46557-8245		46557-8345		46557-8445		46557-8545	
45		46557-9145		46557-9245		46557-9345		46557-9445		46557-9545	
STACK HEIGHTS GIVEN IN MM FOR REF ONLY											
NOTES:											
1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS											
SOLDER CHARGE: TIN											
<div><div><div>SEE SHEET 1</div><div>EC NO: UCP2010-2270</div><div>DRWN: TGREGORI 2010/03/05</div><div>CHKD: JCOMERCI 2007/05/21</div><div>APPR: JCOMERCI 2010/03/05</div><div>H</div><div>REV</div></div><div>DESCRIPTION</div><div><div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div><div><div><div></div><div>mm</div><div>INCH</div></div><div>4 PLACES ± --- ± ---</div><div>3 PLACES ± --- ± .005</div><div>2 PLACES ± --- ± ---</div><div>1 PLACE ± --- ± ---</div><div>ANGULAR ± ---°</div></div><div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div></div><div><div>DIMENSION STYLE</div><div>INCH ONLY</div><div><div>DRAWN BY</div><div>DATE</div><div>TGREGORI</div><div>2007/05/21</div></div><div><div>CHECKED BY</div><div>DATE</div><div>JCOMERCI</div><div>2007/05/21</div></div><div><div>APPROVED BY</div><div>DATE</div><div>JCOMERCI</div><div>2010/03/05</div></div><div><div>MATERIAL NO.</div><div>SEE CHART</div></div><div><div>SIZE</div><div>A</div></div></div><div><div>SCALE</div><div>1:1</div></div><div><div>DESIGN UNITS</div><div>INCH</div></div><div><div>THIRD ANGLE PROJECTION</div></div><div><div>TITLE</div><div>SEARAY SLIM RECEPTACLE ASSEMBLY .050 PITCH</div></div><div><div><div><div></div></div>MOLEX</div><div>MOLEX INCORPORATED</div></div><div><div>DOCUMENT NO.</div><div>SD-46557-001</div></div><div><div>SHEET NO.</div><div>3 OF 4</div></div><div><div colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div></div></div>											
tb_frame_A_P_AM_T Rev. E 2006/04/15		5		4		3		2		1	

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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.

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

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9