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Part Number: [0465572345](#)
Status: **Active**
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim Receptacle, 80 Circuits, 6.50mm (.255") 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

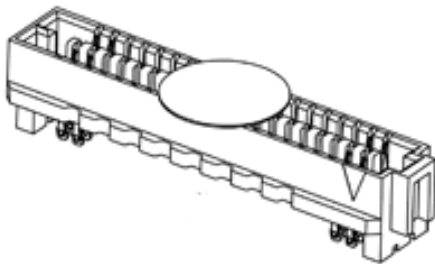
CSA	LR19980
UL	E29179

General

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

Physical

Circuits (Loaded)	80
Circuits (maximum)	80
Circuits Detail	80
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

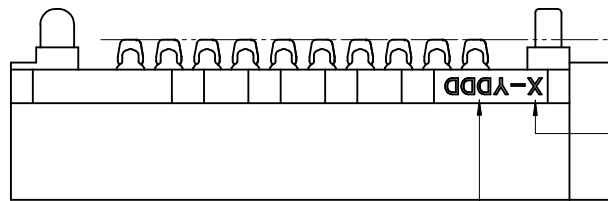
Reference - Drawing Numbers

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

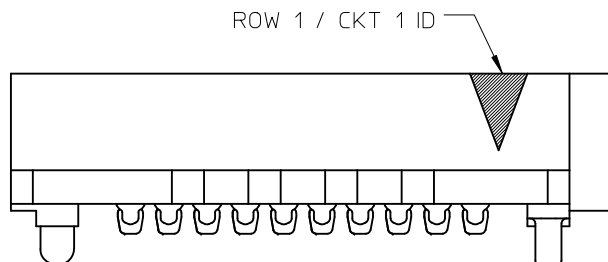
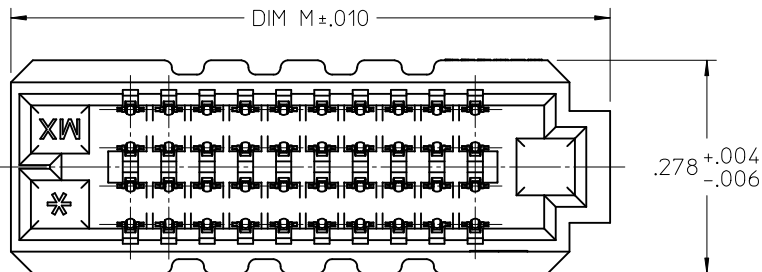
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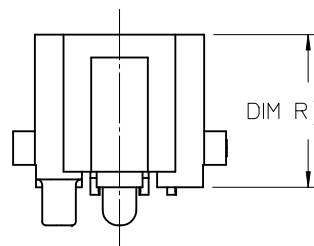
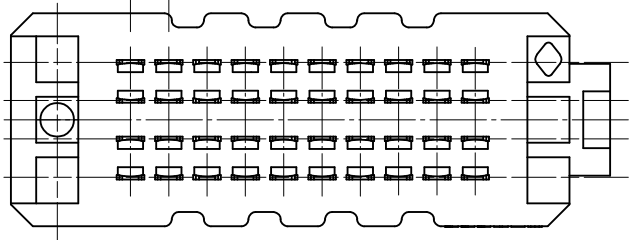
.006 ACROSS ALL
SOLDER CHARGES

LEAD CODE
1 = TIN
2 = TIN/LEAD

DATE CODE

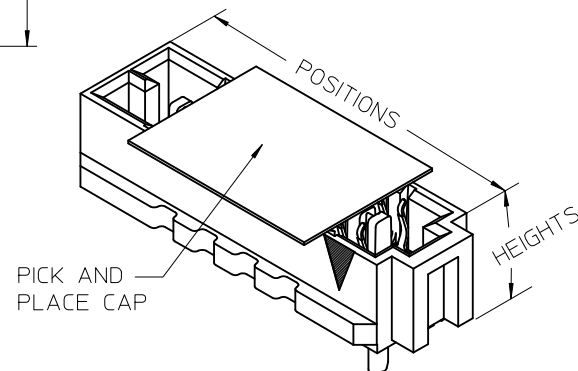


.050 TYP
TERMINAL PITCH



NOTES:

1. MATERIALS: HOUSING- LCP, UL94V-0, BLACK
CONTACTS- COPPER ALLOY
SOLDER CHARGE: SEE CHART
2. FINISH: ALL OPTIONS - SELECT GOLD IN CONTACT AREA: 30 MI MIN
OPTIONS 5.0: SELECT GOLD FLASH IN TAIL, 7 MI MIN
OPTIONS 6.0 THRU 8.0: SELECT TIN IN TAIL, 100 MI MIN
ALL OPTIONS - OVER NICKEL
3. PRODUCT SPECIFICATION: PS-45970-001
4. PACKAGING SPECIFICATION: PK-45970-002
5. MATES WITH SEARAY SLIM RECPT ASSY 46556
6. APPLICATION SPECIFICATION: AS-45970-001
7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
8. PART STATUS: CONTACT MOLEX



POSITION	DIM M	
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
H	REV

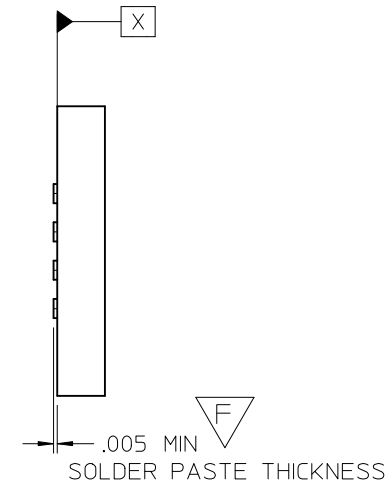
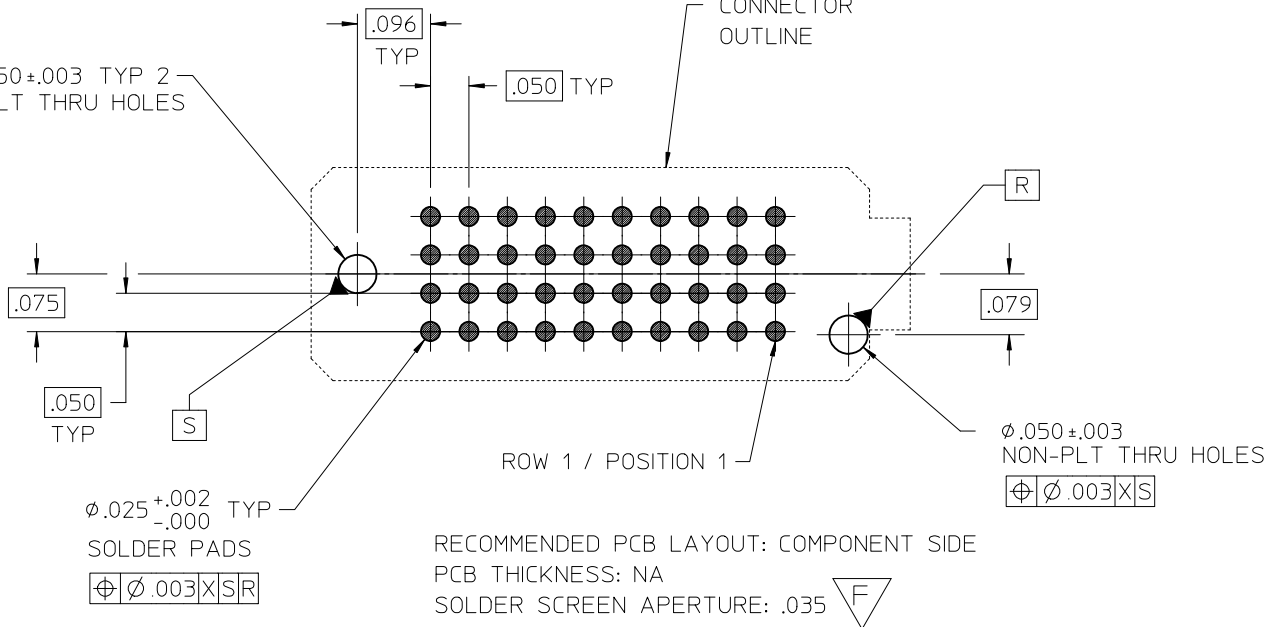
GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ± ---°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

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
TITLE SEARAY SLIM RECEPTACLE ASSEMBLY .050 PITCH		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-46557-001		SHEET NO. 1 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

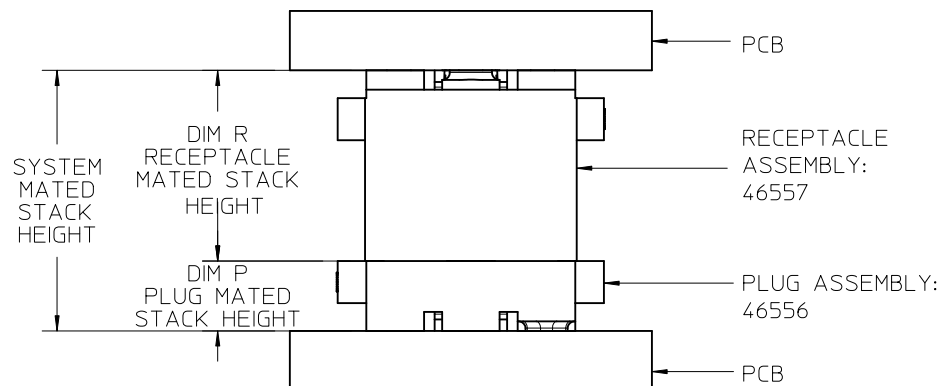
6
5
4
3
2
1

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	± .005	± .0005
3 PLACES	± .005	± .0005
2 PLACES	± .005	± .0005
1 PLACE	± .005	± .0005

ANGULAR ± .005°

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		STACK HEIGHTS GIVEN IN MM FOR REF ONLY	
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			
NOTES:													
1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS													
SOLDER CHARGE: TIN													
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	
						DRAWN BY DATE		TITLE SEARAY SLIM RECEPTACLE ASSEMBLY .050 PITCH					
						TGREGORI 2007/05/21							
						CHECKED BY DATE							
								JCOMERCI 2007/05/21		APPROVED BY DATE		MOLEX INCORPORATED	
				JCOMERCI 2010/03/05		JCOMERCI 2010/03/05							
				ANGULAR ±---°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-46557-001		3 OF 4			
						SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
tb_frame_A_P_AM_T Rev. E 2006/04/15		5		4		3		2		1			

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