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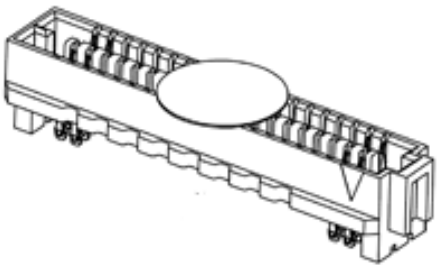
This document was generated on 03/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0465572445

Status: Active

Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim Receptacle, 80 Circuits, 7.50mm (.295") Unmated Height, 4 Rows, With Pegs, Solder Charge™ Lead Free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-45970-001 (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

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

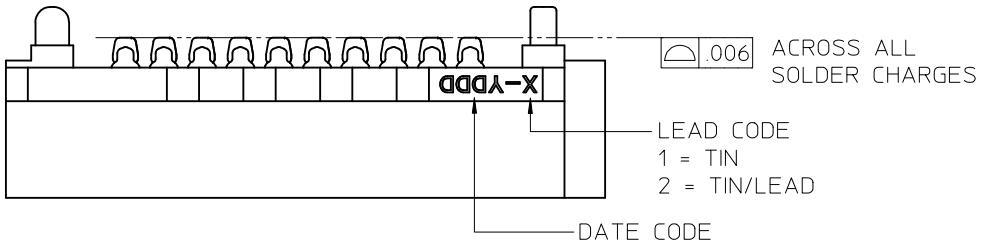
Duration at Max. Process Temperature (seconds)	20
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

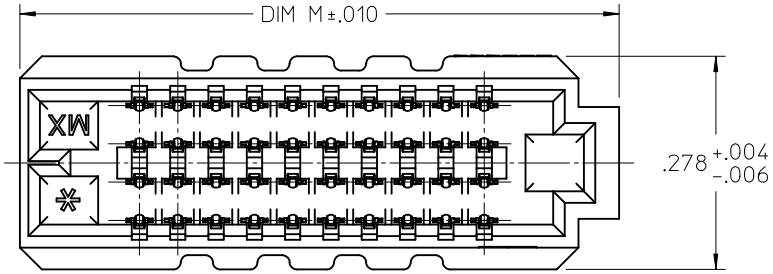
Material Info

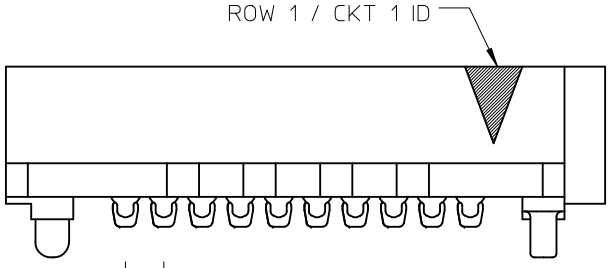
Reference - Drawing Numbers

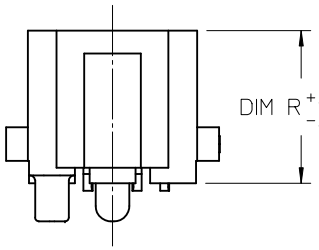
Product Specification	PS-45970-001
Sales Drawing	SD-46557-001

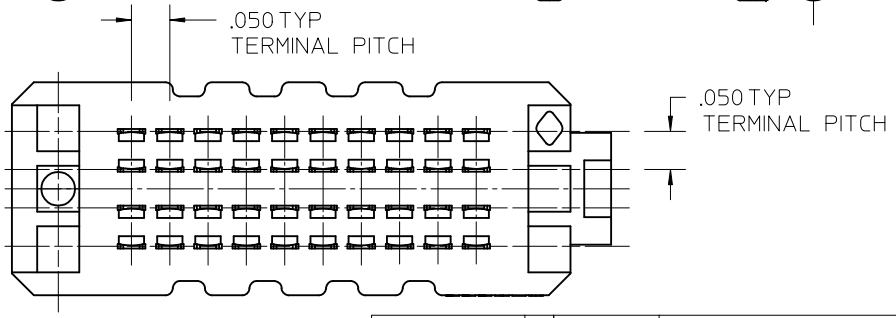
*SEARAY is a trademark of Samtec, Inc.

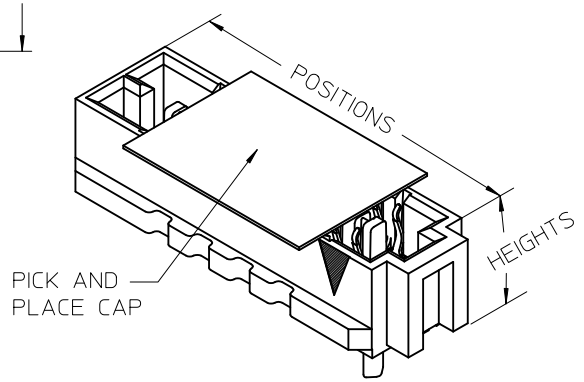












NOTES:

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

REV	DESCRIPTION	
H	UPDATED NOTE 2	2010/03/05
	EC NO: UCP2010-2270	
	DRWN:TGREGORI	2007/05/21
	CH'KD:JCOMERCI	2007/05/21
	APPR:JCOMERCI	2010/03/05

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
SCALE: 4:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

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

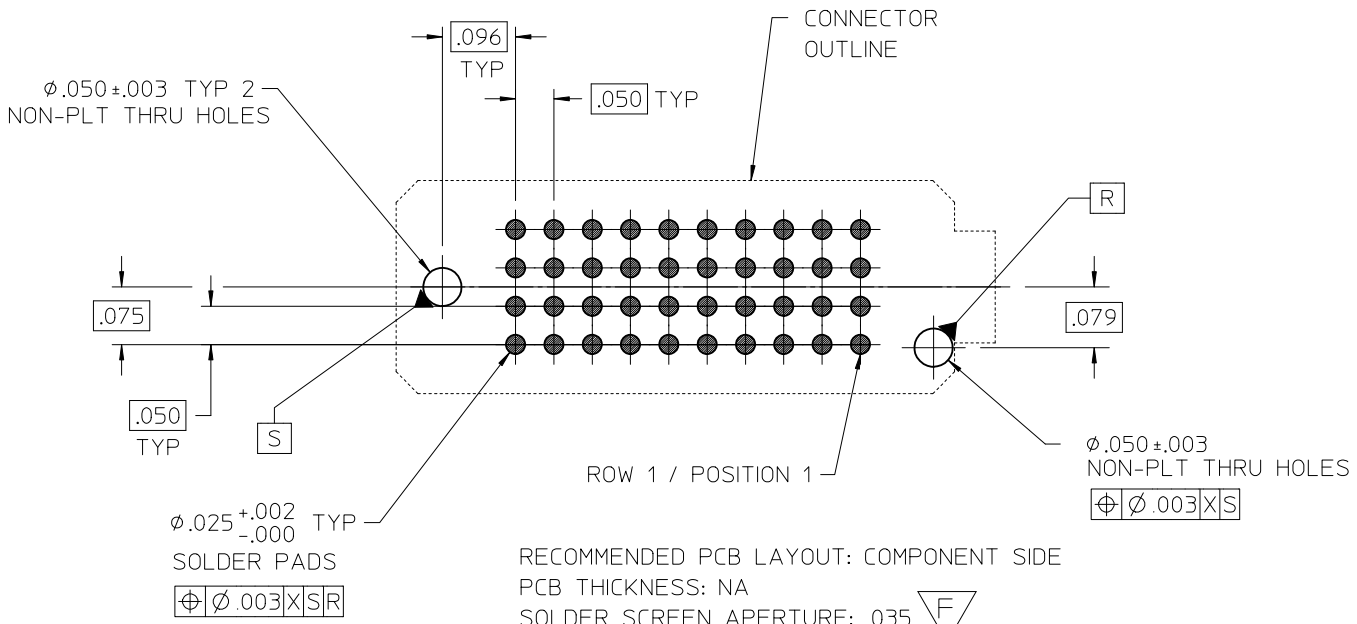
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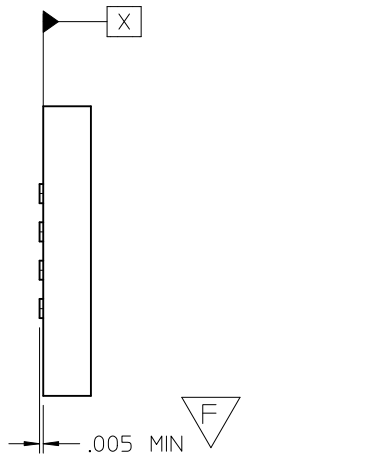
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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-46557-001
SHEET NO.: 1 OF 4

SIZE A

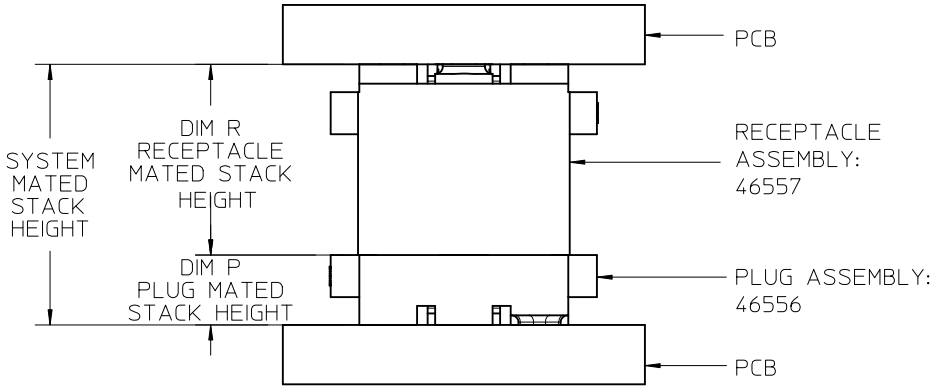
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DIM P PLUG STACK HEIGHT	DIM R RECEPTACLE STACK HEIGHT				
MM	5.0	6.0	6.5	7.5	8.0
2.0	7.0	8.0	8.5	9.5	10.0
3.0	8.0	9.0	9.5	10.5	11.0
3.5	8.5	9.5	10.0	11.0	11.5
2.5	7.5	8.5	9.0	10.0	10.5
4.5	9.5	10.5	11.0	12.0	12.5
5.0	10.0	11.0	11.5	12.5	13.0
7.0	12.0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

STACK HEIGHTS GIVEN IN MM FOR REF ONLY



SEE SHEET 1
EC NO: UCP2010-2270 2010/03/05
DRWN:TGREGORI 2007/05/21
CH'KD:JCOMERCI 2007/05/21
APPR:JCOMERCI 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
SCALE: 4:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: TGREGORI DATE: 2007/05/21
CHECKED BY: JCOMERCI DATE: 2007/05/21
APPROVED BY: JCOMERCI DATE: 2010/03/05

TITLE: SEARAY SLIM RECEPTACLE ASSEMBLY .050 PITCH

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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-46557-001
SHEET NO.: 2 OF 4

SIZE: A

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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

SEE SHEET 1
EC NO: UCP2010-2270
DRWN:TGREGORI 2010/03/05
CH'KD:JCOMERCI 2007/05/21
APPR:JCOMERCI 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
SCALE: 1:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: TGREGORI DATE: 2007/05/21
CHECKED BY: JCOMERCI DATE: 2007/05/21
APPROVED BY: JCOMERCI DATE: 2010/03/05

TITLE: SEARAY SLIM RECEPTACLE ASSEMBLY .050 PITCH

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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-46557-001
SHEET NO.: 3 OF 4

SIZE: A

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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	46557-1147	46557-1247	46557-1347	46557-1447	46557-1547
20	46557-2147	46557-2247	46557-2347	46557-2447	46557-2547
30	46557-3147	46557-3247	46557-3347	46557-3447	46557-3547
40	46557-4147	46557-4247	46557-4347	46557-4447	46557-4547
50	46557-5147	46557-5247	46557-5347	46557-5447	46557-5547
15	46557-6147	46557-6247	46557-6347	46557-6447	46557-6547
25	46557-7147	46557-7247	46557-7347	46557-7447	46557-7547
35	46557-8147	46557-8247	46557-8347	46557-8447	46557-8547
45	46557-9147	46557-9247	46557-9347	46557-9447	46557-9547

STACK HEIGHTS GIVEN IN MM FOR REF ONLY

NOTES:

1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS

   SOLDER CHARGE: TIN / LEAD

SEE SHEET 1
EC NO: UCP2010-2270 2010/03/05
DRWN:TGREGORI 2007/05/21
CH'KD:JCOMERCI 2007/05/21
APPR:JCOMERCI 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
SCALE: 1:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

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

TITLE: SEARAY SLIM RECEPTACLE ASSEMBLY .050 PITCH

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MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-46557-001
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