

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0459710163](#)
Status: **Active**
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Receptacle, 114 Circuits, 5.00mm (.196") Unmated Height, 6 Rows, With Pegs, Solder Charge™

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-45970-001 \(PDF\)](#)
[Product Specification PS-45970-002 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

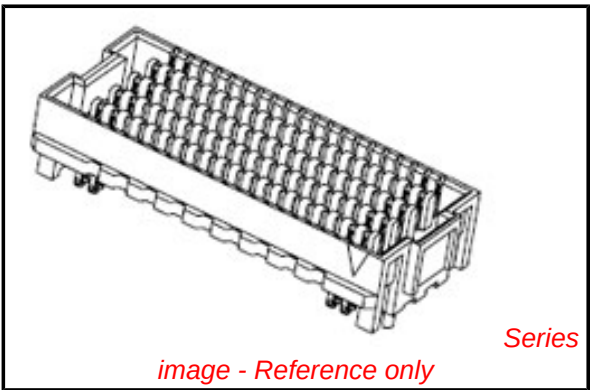
CSA LR19980
UL E29179

General

Product Family PCB Receptacles
Series [45971](#)
Application Board-to-Board
Product Name SEARAY*

Physical

Circuits (Loaded) 114
Circuits (maximum) 114
Circuits Detail 114
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
Material - Plating Termination Tin-Lead
Material - Resin High Temperature Thermoplastic
Number of Rows 6
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 Tray
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



EU RoHS
Not 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
[45971Series](#)

Mates With
[45970 SEARAY* Plug](#)

Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +125°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	2.7A
Grounding to PCB	No
Voltage - Maximum	240V AC

Solder Process Data

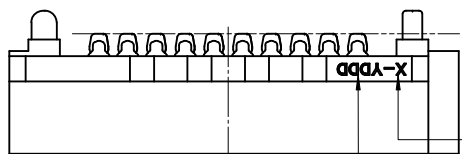
Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	230
Replacement RoHS Compliant Part Number	0459710161

Material Info

Reference - Drawing Numbers

Application Specification	AS-45970-001, AS-45970-002, AS-45970-990
Packaging Specification	PK-45971-001
Product Specification	PS-45970-001, PS-45970-002
Sales Drawing	SD-45971-001
Test Summary	TS-45970-001

*SEARAY is a trademark of Samtec, Inc.



DATE CODE



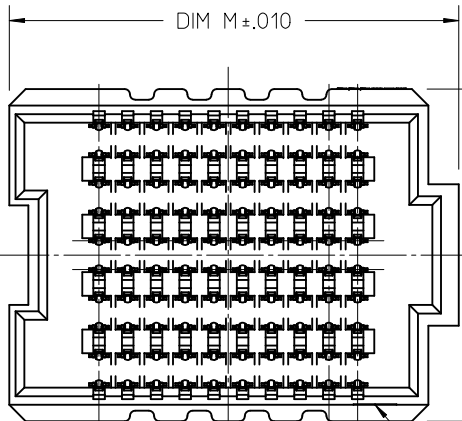
ACROSS ALL
SOLDER CHARGES

LEAD CODE:

1 = TIN

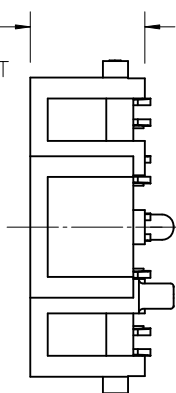
2 = TIN / LEAD

DIM M $\pm .010$



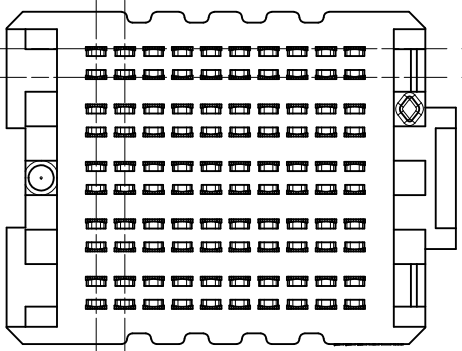
DIM C $\pm .010$

DIM R $^{+.002}_{-.004}$
UNMATED HEIGHT

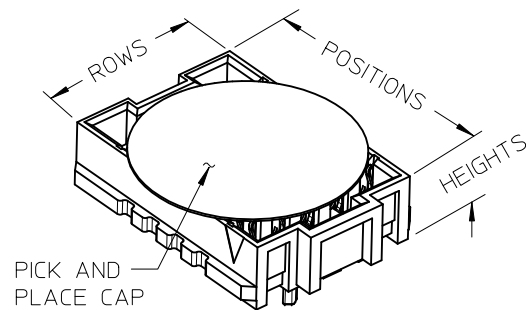


ROW 1 / POSITION 1 ID THIS SIDE

.050 TYP
TERMINAL PITCH



.050 TYP
TERMINAL PITCH



PICK AND
PLACE CAP

NOTES:

- MATERIALS: HOUSING: LCP, UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: SEE CHART
- 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
- PRODUCT SPECIFICATION: PS-45970-001
- PACKAGING SPECIFICATION: SEE CHART
- MATES WITH SEARAY PLUG ASSEMBLY 45970
- APPLICATION SPECIFICATION: AS-45970-001
- COSMETIC SPECIFICATION: PS-45499-002 CLASS B
- PART STATUS: CONTACT MOLEX

UPDATED NOTE 2

EC NO: UCP2010-2270

DRWN: TREGORI 2010/03/05

CHKD: JCOMERC 2005/05/17

APPR: JCOMERC 2010/03/05

DESCRIPTION

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	2005/05/17
CHECKED BY	DATE
JCOMERC	2005/05/17
APPROVED BY	DATE
JCOMERC	2010/03/05

MATERIAL NO.
SEE CHART

SIZE
A

SCALE
3:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

TITLE SEARAY RECEPTACLE ASSEMBLY .050 CENTERS	
MOLEX INCORPORATED	
DOCUMENT NO. SD-45971-001	SHEET NO. 1 OF 10

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

6

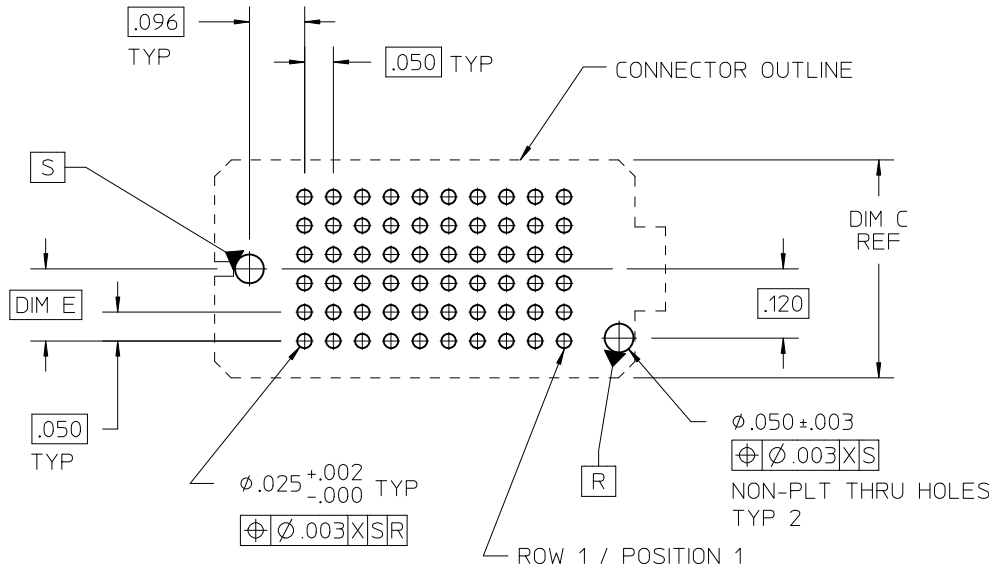
5

4

3

2

1

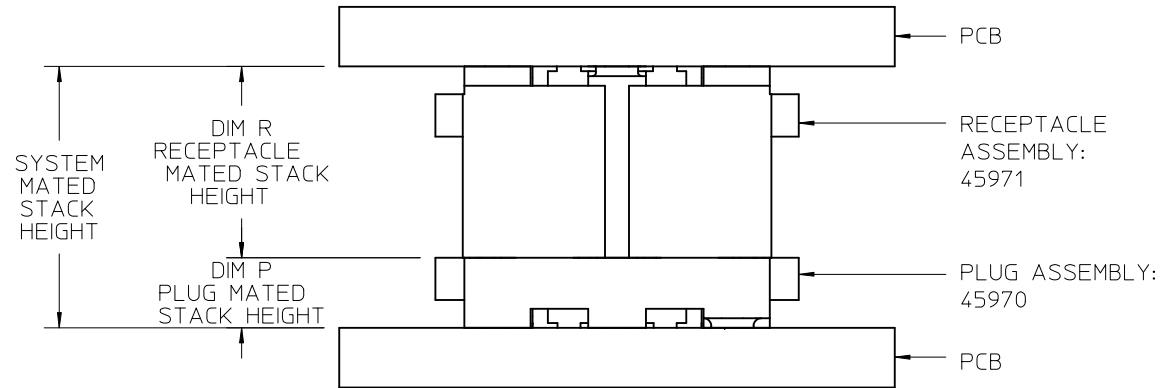


F
.005
MIN SOLDER
PASTE THICKNESS

NO OF ROWS	DIM C	DIM E
6	.378	.125
8	.478	.175
10	.578	.225
12	.678	.275

RECOMMENDED PCB LAYOUT: COMPONENT SIDE
SOLDER SCREEN APERTURE SIZE: .035
PCB THICKNESS: NA
F

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 METRIC FOR REF ONLY

MATED STACK HEIGHTS
(MILLIMETERS) REF

SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TREGORI 2010/03/05 CHKD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 3:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY TREGORI	DATE 2005/05/17	TITLE SEARAY RECEPTACLE ASSEMBLY .050 CENTERS					
		4 PLACES	± ---	± ---	CHECKED BY JCOMERC I	DATE 2005/05/17						
		3 PLACES	± ---	± .005	APPROVED BY JCOMERC I		DATE 2010/03/05	MOLEX INCORPORATED				
		2 PLACES	± ---	± ---								
		1 PLACE	± ---	± ---								
	ANGULAR ± ---°			MATERIAL NO. SEE CHARTS		DOCUMENT NO. SD-45971-001			SHEET NO. 2 OF 10			
	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

		6				5				4				3				2				1	
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY									
		DIM R: HOUSING HEIGHT																					
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO											
		19	1.232	45971-0161		45971-0261		45971-0361		45971-0461		45971-0561											
		10	0.782	45971-1161		45971-1261		45971-1361		45971-1461		45971-1561											
		20	1.282	45971-2161		45971-2261		45971-2361		45971-2461		45971-2561											
		30	1.782	45971-3161		45971-3261		45971-3361		45971-3461		45971-3561											
		40	2.282	45971-4161		45971-4261		45971-4361		45971-4461		45971-4561											
		50	2.782	45971-5161		45971-5261		45971-5361		45971-5461		45971-5561											
		15	1.032	45971-6161		45971-6261		45971-6361		45971-6461		45971-6561											
		25	1.532	45971-7161		45971-7261		45971-7361		45971-7461		45971-7561											
		35	2.032	45971-8161		45971-8261		45971-8361		45971-8461		45971-8561											
		45	2.532	45971-9161		45971-9261		45971-9361		45971-9461		45971-9561											
B	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY									
		DIM R: HOUSING HEIGHT																					
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO											
		19	1.232	45971-0165		45971-0265		45971-0365		45971-0465		45971-0565											
		10	0.782	45971-1165		45971-1265		45971-1365		45971-1465		45971-1565											
		20	1.282	45971-2165		45971-2265		45971-2365		45971-2465		45971-2565											
		30	1.782	45971-3165		45971-3265		45971-3365		45971-3465		45971-3565											
		40	2.282	45971-4165		45971-4265		45971-4365		45971-4465		45971-4565											
		50	2.782	45971-5165		45971-5265		45971-5365		45971-5465		45971-5565											
		15	1.032	45971-6165		45971-6265		45971-6365		45971-6465		45971-6565											
		25	1.532	45971-7165		45971-7265		45971-7365		45971-7465		45971-7565											
		35	2.032	45971-8165		45971-8265		45971-8365		45971-8465		45971-8565											
		45	2.532	45971-9165		45971-9265		45971-9365		45971-9465		45971-9565											
A	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05		REV	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 1:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 6 SOLDER CHARGE: TIN PACKAGING: TRAYS AND TAPE AND REEL								
																	tb_frame_A_P_AM_T Rev. E 2006/04/15		5		4		3

D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY	
		DIM R: HOUSING HEIGHT													
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
		19	1.232	45971-0163		45971-0263		45971-0363		45971-0463		45971-0563			
		10	0.782	45971-1163		45971-1263		45971-1363		45971-1463		45971-1563			
		20	1.282	45971-2163		45971-2263		45971-2363		45971-2463		45971-2563			
		30	1.782	45971-3163		45971-3263		45971-3363		45971-3463		45971-3563			
		40	2.282	45971-4163		45971-4263		45971-4363		45971-4463		45971-4563			
		50	2.782	45971-5163		45971-5263		45971-5363		45971-5463		45971-5563			
		15	1.032	45971-6163		45971-6263		45971-6363		45971-6463		45971-6563			
		25	1.532	45971-7163		45971-7263		45971-7363		45971-7463		45971-7563			
		35	2.032	45971-8163		45971-8263		45971-8363		45971-8463		45971-8563			
		45	2.532	45971-9163		45971-9263		45971-9363		45971-9463		45971-9563			
C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY	
		DIM R: HOUSING HEIGHT													
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
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		10	0.782	45971-1167		45971-1267		45971-1367		45971-1467		45971-1567			
		20	1.282	45971-2167		45971-2267		45971-2367		45971-2467		45971-2567			
		30	1.782	45971-3167		45971-3267		45971-3367		45971-3467		45971-3567			
		40	2.282	45971-4167		45971-4267		45971-4367		45971-4467		45971-4567			
		50	2.782	45971-5167		45971-5267		45971-5367		45971-5467		45971-5567			
		15	1.032	45971-6167		45971-6267		45971-6367		45971-6467		45971-6567			
		25	1.532	45971-7167		45971-7267		45971-7367		45971-7467		45971-7567			
		35	2.032	45971-8167		45971-8267		45971-8367		45971-8467		45971-8567			
		45	2.532	45971-9167		45971-9267		45971-9367		45971-9467		45971-9567			
B														NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 6 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL	
A		SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CH'KD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05 REV DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		SEARAY RECEPTACLE ASSEMBLY .050 CENTERS				
			4 PLACES	± ---	± ---	DRAWN BY TGREGORI	DATE 2005/05/17	TITLE							
			3 PLACES	± ---	± .005	CHECKED BY JCOMERC I	DATE 2005/05/17								
			2 PLACES	± ---	± ---	APPROVED BY JCOMERC I	DATE 2010/03/05	MOLEX INCORPORATED		SD-45971-001					
			1 PLACE	± ---	± ---	MATERIAL NO. SEE CHART		DOCUMENT NO.	SHEET NO. 4 OF 10						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				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			

[illegible]

		6		5		4		3		2		1																																															
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY																																													
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		20	1.282	45971-2187		45971-2287		45971-2387		45971-2487		45971-2587																																															
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		50	2.782	45971-5187		45971-5287		45971-5387		45971-5487		45971-5587																																															
		15	1.032	45971-6187		45971-6287		45971-6387		45971-6487		45971-6587																																															
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		19	1.232	45971-0187		45971-0287		45971-0387		45971-0487		45971-0587																																															
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		40	2.282	45971-4187		45971-4287		45971-4387		45971-4487		45971-4587																																															
		50	2.782	45971-5187		45971-5287		45971-5387		45971-5487		45971-5587																																															
		15	1.032	45971-6187		45971-6287		45971-6387		45971-6487		45971-6587																																															
A	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY																																													
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		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO																																															
		19	1.232	45971-0187		45971-0287		45971-0387		45971-0487		45971-0587																																															
		10	0.782	45971-1187		45971-1287		45971-1387		45971-1487		45971-1587																																															
		20	1.282	45971-2187		45971-2287		45971-2387		45971-2487		45971-2587																																															
		30	1.782	45971-3187		45971-3287		45971-3387		45971-3487		45971-3587																																															
		40	2.282	45971-4187		45971-4287		45971-4387		45971-4487		45971-4587																																															
		50	2.782	45971-5187		45971-5287		45971-5387		45971-5487		45971-5587																																															
		15	1.032	45971-6187		45971-6287		45971-6387		45971-6487		45971-6587																																															
NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 8 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL																																																											
SEE SHEET 1 EC NO: UCP2010-2270 DRWN:TGREGORI 2010/03/05 CHKD:JCOMERC I 2005/05/17 APPR:JCOMERC I 2010/03/05 DESCRIPTION REV GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± .005</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr></table> ANGULAR ± ---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS <table><tr><td colspan="2">DIMENSION STYLE INCH ONLY</td></tr><tr><td>DRAWN BY TGREGORI</td><td>DATE 2005/05/17</td></tr><tr><td>CHECKED BY JCOMERC I</td><td>DATE 2005/05/17</td></tr><tr><td>APPROVED BY JCOMERC I</td><td>DATE 2010/03/05</td></tr><tr><td colspan="2">MATERIAL NO. SEE CHART</td></tr><tr><td>SIZE A</td><td>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table> <table><tr><td>SCALE 1:1</td><td>DESIGN UNITS INCH</td><td>THIRD ANGLE PROJECTION</td></tr></table> <table><tr><td colspan="3">SEARAY RECEPTACLE ASSEMBLY .050 CENTERS</td></tr><tr><td colspan="3">MOLEX INCORPORATED</td></tr><tr><td colspan="2">DOCUMENT NO. SD-45971-001</td><td>SHEET NO. 6 OF 10</td></tr></table> <tr><td colspan="2">tb_frame_A_P_AM_T Rev. E 2006/04/15</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr>															mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .005	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	DIMENSION STYLE INCH ONLY		DRAWN BY TGREGORI	DATE 2005/05/17	CHECKED BY JCOMERC I	DATE 2005/05/17	APPROVED BY JCOMERC I	DATE 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 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	SEARAY RECEPTACLE ASSEMBLY .050 CENTERS			MOLEX INCORPORATED			DOCUMENT NO. SD-45971-001		SHEET NO. 6 OF 10	tb_frame_A_P_AM_T Rev. E 2006/04/15		5	4	3	2	1
	mm	INCH																																																									
4 PLACES	± ---	± ---																																																									
3 PLACES	± ---	± .005																																																									
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DOCUMENT NO. SD-45971-001		SHEET NO. 6 OF 10																																																									
tb_frame_A_P_AM_T Rev. E 2006/04/15		5	4	3	2	1																																																					

D	TRAY PACK PK-45971-001	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 METRIC FOR REF ONLY					
		DIM R: HOUSING HEIGHT																	
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO							
		19	1.232	45971-0111		45971-0211		45971-0311		45971-0411		45971-0511							
		10	0.782	45971-1111		45971-1211		45971-1311		45971-1411		45971-1511							
		20	1.282	45971-2111		45971-2211		45971-2311		45971-2411		45971-2511							
		30	1.782	45971-3111		45971-3211		45971-3311		45971-3411		45971-3511							
		40	2.282	45971-4111		45971-4211		45971-4311		45971-4411		45971-4511							
		50	2.782	45971-5111		45971-5211		45971-5311		45971-5411		45971-5511							
		15	1.032	45971-6111		45971-6211		45971-6311		45971-6411		45971-6511							
		25	1.532	45971-7111		45971-7211		45971-7311		45971-7411		45971-7511							
35	2.032	45971-8111		45971-8211		45971-8311		45971-8411		45971-8511									
45	2.532	45971-9111		45971-9211		45971-9311		45971-9411		45971-9511									
C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY					
		DIM R: HOUSING HEIGHT																	
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO							
		19	1.232	45971-0115		45971-0215		45971-0315		45971-0415		45971-0515							
		10	0.782	45971-1115		45971-1215		45971-1315		45971-1415		45971-1515							
		20	1.282	45971-2115		45971-2215		45971-2315		45971-2415		45971-2515							
		30	1.782	45971-3115		45971-3215		45971-3315		45971-3415		45971-3515							
		40	2.282	45971-4115		45971-4215		45971-4315		45971-4415		45971-4515							
		50	2.782	45971-5115		45971-5215		45971-5315		45971-5415		45971-5515							
		15	1.032	45971-6115		45971-6215		45971-6315		45971-6415		45971-6515							
		25	1.532	45971-7115		45971-7215		45971-7315		45971-7415		45971-7515							
		35	2.032	45971-8115		45971-8215		45971-8315		45971-8415		45971-8515							
45	2.532	45971-9115		45971-9215		45971-9315		45971-9415		45971-9515									
B	NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 10 SOLDER CHARGE: TIN PACKAGING: TRAYS AND TAPE AND REEL																		
A	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05 REV	GENERAL TOLERANCES (UNLESS SPECIFIED)						DIMENSION STYLE INCH ONLY		SCALE 1:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION					
		4 PLACES		± ---		± ---		DRAWN BY TGREGORI		DATE 2005/05/17		TITLE SEARAY RECEPTACLE ASSEMBLY .050 CENTERS MOLEX INCORPORATED							
		3 PLACES		± ---		± .005		CHECKED BY JCOMERC I		DATE 2005/05/17									
		2 PLACES		± ---		± ---		APPROVED BY JCOMERC I		DATE 2010/03/05									
		1 PLACE		± ---		± ---		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45971-001								SHEET NO. 7 OF 10	
		ANGULAR ± ---°																	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																	
		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			

		6		5		4		3		2		1		
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY
		DIM R: HOUSING HEIGHT												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0113		45971-0213		45971-0313		45971-0413		45971-0513		
		10	0.782	45971-1113		45971-1213		45971-1313		45971-1413		45971-1513		
		20	1.282	45971-2113		45971-2213		45971-2313		45971-2413		45971-2513		
		30	1.782	45971-3113		45971-3213		45971-3313		45971-3413		45971-3513		
		40	2.282	45971-4113		45971-4213		45971-4313		45971-4413		45971-4513		
		50	2.782	45971-5113		45971-5213		45971-5313		45971-5413		45971-5513		
		15	1.032	45971-6113		45971-6213		45971-6313		45971-6413		45971-6513		
C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY
		DIM R: HOUSING HEIGHT												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0117		45971-0217		45971-0317		45971-0417		45971-0517		
		10	0.782	45971-1117		45971-1217		45971-1317		45971-1417		45971-1517		
		20	1.282	45971-2117		45971-2217		45971-2317		45971-2417		45971-2517		
		30	1.782	45971-3117		45971-3217		45971-3317		45971-3417		45971-3517		
		40	2.282	45971-4117		45971-4217		45971-4317		45971-4417		45971-4517		
		50	2.782	45971-5117		45971-5217		45971-5317		45971-5417		45971-5517		
		15	1.032	45971-6117		45971-6217		45971-6317		45971-6417		45971-6517		
B	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY
		DIM R: HOUSING HEIGHT												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0117		45971-0217		45971-0317		45971-0417		45971-0517		
		10	0.782	45971-1117		45971-1217		45971-1317		45971-1417		45971-1517		
		20	1.282	45971-2117		45971-2217		45971-2317		45971-2417		45971-2517		
		30	1.782	45971-3117		45971-3217		45971-3317		45971-3417		45971-3517		
		40	2.282	45971-4117		45971-4217		45971-4317		45971-4417		45971-4517		
		50	2.782	45971-5117		45971-5217		45971-5317		45971-5417		45971-5517		
		15	1.032	45971-6117		45971-6217		45971-6317		45971-6417		45971-6517		
A	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY
		DIM R: HOUSING HEIGHT												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0117		45971-0217		45971-0317		45971-0417		45971-0517		
		10	0.782	45971-1117		45971-1217		45971-1317		45971-1417		45971-1517		
		20	1.282	45971-2117		45971-2217		45971-2317		45971-2417		45971-2517		
		30	1.782	45971-3117		45971-3217		45971-3317		45971-3417		45971-3517		
		40	2.282	45971-4117		45971-4217		45971-4317		45971-4417		45971-4517		
		50	2.782	45971-5117		45971-5217		45971-5317		45971-5417		45971-5517		
		15	1.032	45971-6117		45971-6217		45971-6317		45971-6417		45971-6517		
tb_frame_A_P_AM_T Rev. E 2006/04/15		5		4		3		2		1				

NOTES:

1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS
NO OF ROWS: 10
SOLDER CHARGE: TIN / LEAD
PACKAGING: TRAYS AND TAPE AND REEL

SEE SHEET 1
EC NO: UCP2010-2270
DRWN: TGREGORI 2010/03/05
CHKD: JCOMERC I 2005/05/17
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
TGREGORI

DATE
2005/05/17

CHECKED BY
JCOMERC I

DATE
2005/05/17

APPROVED BY
JCOMERC I

DATE
2010/03/05

MATERIAL NO.

SIZE
A

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

SCALE
1:1

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

TITLE
SEARAY
RECEPTACLE ASSEMBLY
.050 CENTERS

molex

MOLEX INCORPORATED

DOCUMENT NO.
SD-45971-001

SHEET NO.
8 OF 10

		6				5				4				3				2				1					
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY													
		DIM R: HOUSING HEIGHT																									
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO															
		19	1.232	45971-0121		45971-0221		45971-0321		45971-0421		45971-0521															
		10	0.782	45971-1121		45971-1221		45971-1321		45971-1421		45971-1521															
		20	1.282	45971-2121		45971-2221		45971-2321		45971-2421		45971-2521															
		30	1.782	45971-3121		45971-3221		45971-3321		45971-3421		45971-3521															
		40	2.282	45971-4121		45971-4221		45971-4321		45971-4421		45971-4521															
		50	2.782	45971-5121		45971-5221		45971-5321		45971-5421		45971-5521															
		15	1.032	45971-6121		45971-6221		45971-6321		45971-6421		45971-6521															
		25	1.532	45971-7121		45971-7221		45971-7321		45971-7421		45971-7521															
		35	2.032	45971-8121		45971-8221		45971-8321		45971-8421		45971-8521															
		45	2.532	45971-9121		45971-9221		45971-9321		45971-9421		45971-9521															
		C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM												8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY	
DIM R: HOUSING HEIGHT																											
POSITION	DIM M			MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO															
19	1.232			45971-0125		45971-0225		45971-0325		45971-0425		45971-0525															
10	0.782			45971-1125		45971-1225		45971-1325		45971-1425		45971-1525															
20	1.282			45971-2125		45971-2225		45971-2325		45971-2425		45971-2525															
30	1.782			45971-3125		45971-3225		45971-3325		45971-3425		45971-3525															
40	2.282			45971-4125		45971-4225		45971-4325		45971-4425		45971-4525															
50	2.782			45971-5125		45971-5225		45971-5325		45971-5425		45971-5525															
15	1.032			45971-6125		45971-6225		45971-6325		45971-6425		45971-6525															
25	1.532			45971-7125		45971-7225		45971-7325		45971-7425		45971-7525															
35	2.032			45971-8125		45971-8225		45971-8325		45971-8425		45971-8525															
45	2.532			45971-9125		45971-9225		45971-9325		45971-9425		45971-9525															
B	SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CH'KD: JCOMERC I 2005/05/17 APPR: JCOMERC I 2010/03/05			REV	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE INCH ONLY		SCALE 3:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION													
		4 PLACES	± ---			± ---	mm	INCH	DRAWN BY TGREGORI	DATE 2005/05/17	SEARAY RECEPTACLE ASSEMBLY .050 CENTERS																
		3 PLACES	± ---			± .005			CHECKED BY JCOMERC I	DATE 2005/05/17	MOLEX INCORPORATED																
		2 PLACES	± ---			± ---			APPROVED BY JCOMERC I	DATE 2010/03/05	SD-45971-001																
		1 PLACE	± ---			± ---					9 OF 10																
		ANGULAR ± ---°																									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE CHART																							
				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															

NOTES:
 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS
 NO OF ROWS: 12
 SOLDER CHARGE: TIN
 PACKAGING: TRAYS AND TAPE AND REEL

		6		5		4		3		2		1		
D	TRAY PACK PK-45971-001	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY
		DIM R: HOUSING HEIGHT												
				.199		.238		.258		.297		.297		
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0123		45971-0223		45971-0323		45971-0423		45971-0523		
		10	0.782	45971-1123		45971-1223		45971-1323		45971-1423		45971-1523		
		20	1.282	45971-2123		45971-2223		45971-2323		45971-2423		45971-2523		
		30	1.782	45971-3123		45971-3223		45971-3323		45971-3423		45971-3523		
		40	2.282	45971-4123		45971-4223		45971-4323		45971-4423		45971-4523		
		50	2.782	45971-5123		45971-5223		45971-5323		45971-5423		45971-5523		
		15	1.032	45971-6123		45971-6223		45971-6323		45971-6423		45971-6523		
		25	1.532	45971-7123		45971-7223		45971-7323		45971-7423		45971-7523		
		35	2.032	45971-8123		45971-8223		45971-8323		45971-8423		45971-8523		
		45	2.532	45971-9123		45971-9223		45971-9323		45971-9423		45971-9523		
C	TRAY PACK PK-45971-002	DIM R: (REF)		5.0 MM		6.0 MM		6.5 MM		7.5 MM		8.0 MM		STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY
		DIM R: HOUSING HEIGHT												
				.199		.238		.258		.297		.297		
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0127		45971-0227		45971-0327		45971-0427		45971-0527		
		10	0.782	45971-1127		45971-1227		45971-1327		45971-1427		45971-1527		
		20	1.282	45971-2127		45971-2227		45971-2327		45971-2427		45971-2527		
		30	1.782	45971-3127		45971-3227		45971-3327		45971-3427		45971-3527		
		40	2.282	45971-4127		45971-4227		45971-4327		45971-4427		45971-4527		
		50	2.782	45971-5127		45971-5227		45971-5327		45971-5427		45971-5527		
		15	1.032	45971-6127		45971-6227		45971-6327		45971-6427		45971-6527		
		25	1.532	45971-7127		45971-7227		45971-7327		45971-7427		45971-7527		
		35	2.032	45971-8127		45971-8227		45971-8327		45971-8427		45971-8527		
		45	2.532	45971-9127		45971-9227		45971-9327		45971-9427		45971-9527		
B														NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 12 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL
A														A