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Part Number: [0459712515](#)
Status: **Active**
Overview: [searay](#)
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Receptacle, 200 Circuits, 8.00mm (.314") Unmated Height, 10 Rows, With Pegs, Solder Charge™ Lead Free

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

Agency Certification

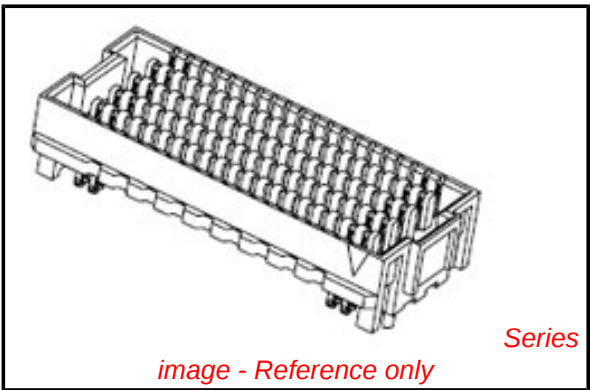
CSA LR19980
UL E29179

General

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

Physical

Circuits (Loaded) 200
Circuits (maximum) 200
Circuits Detail 200
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
Material - Resin High Temperature Thermoplastic
Number of Rows 10
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



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
[45971Series](#)

Mates With
[45970 SEARAY* Plug](#)

Robotic Placement	Pick and Place Cap
Stackable	No
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

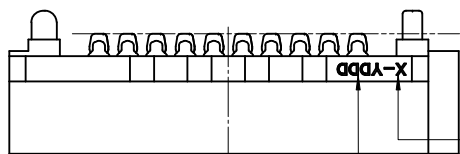
Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Application Specification	AS-45970-001, AS-45970-002, AS-45970-990
Packaging Specification	PK-45971-001, PK-45971-002
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



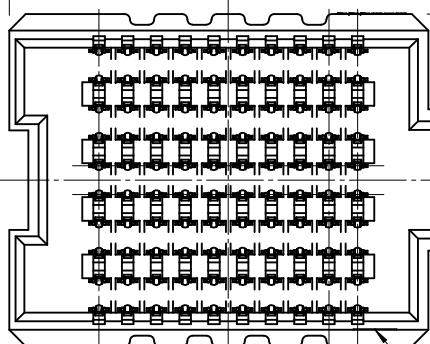
ACROSS ALL
SOLDER CHARGES

LEAD CODE:

1 = TIN

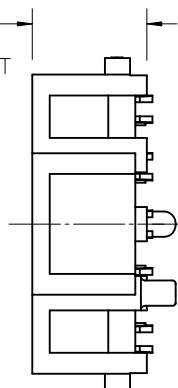
2 = TIN / LEAD

DIM M $\pm .010$



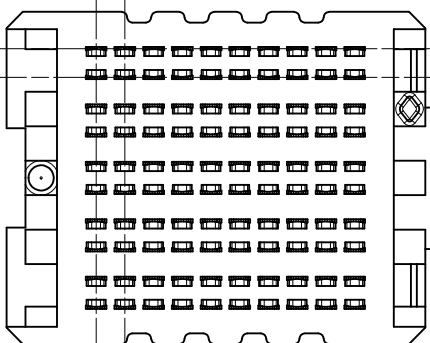
DIM C $\pm .010$

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

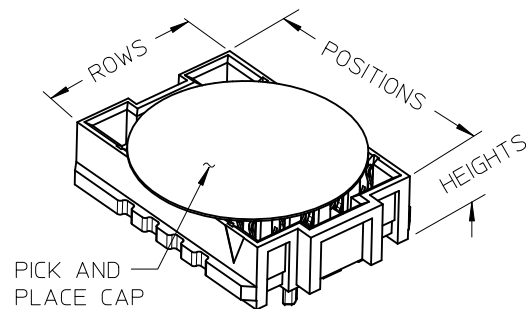


ROW 1 / POSITION 1 ID THIS SIDE

.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	2010/03/05
	DRWN: TREGORI	2010/03/05
	CHKD: JCOMERC	2010/03/05
	APPR: JCOMERC	2010/03/05
O	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	2010/03/05
CHECKED BY	DATE
JCOMERC	2010/03/05
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

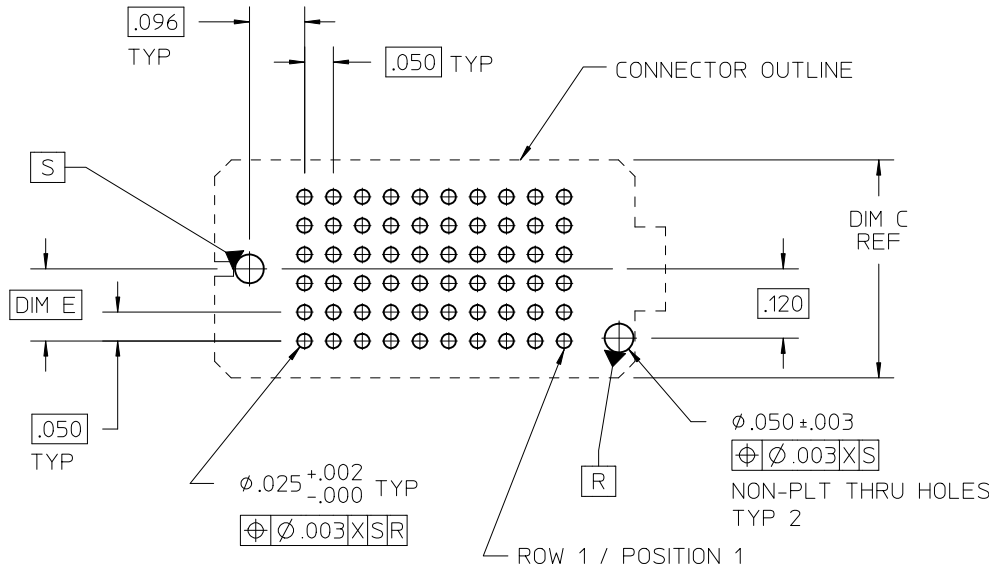
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4

3

2

1

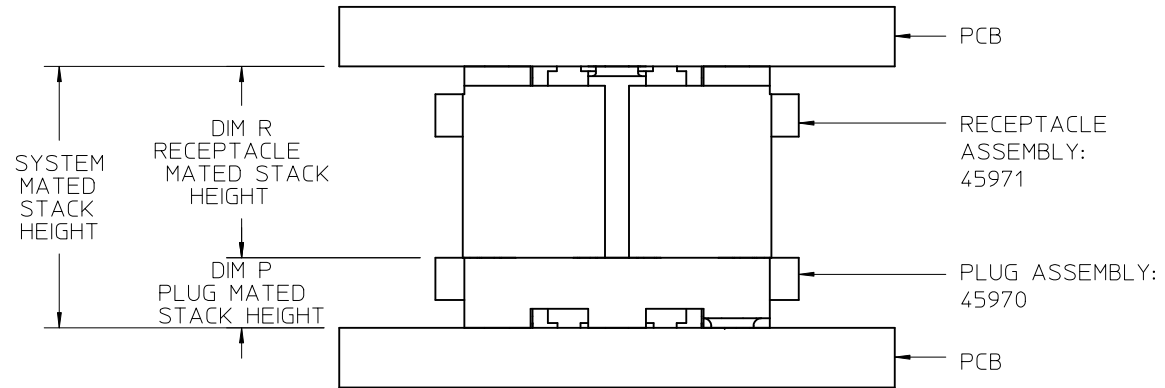


F
.005
MIN SOLDER
PASTE THICKNESS

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				
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								
REV													

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	45971-0161		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				
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	45971-0165		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				
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	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				
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		DESCRIPTION		REV		
O														

		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	45971-0163		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		
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	45971-0167		45971-0267		45971-0367		45971-0467		45971-0567		
		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		
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	45971-0167		45971-0267		45971-0367		45971-0467		45971-0567		
		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		
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	45971-0167		45971-0267		45971-0367		45971-0467		45971-0567		
		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		
NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 6 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 DATE														
TGREGORI 2005/05/17														
CHECKED BY DATE														
JCOMERC I 2005/05/17														
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 1:1														
DESIGN UNITS INCH														
THIRD ANGLE PROJECTION														
TITLE														
SEARAY RECEPTACLE ASSEMBLY .050 CENTERS														
MOLEX MOLEX INCORPORATED														
DOCUMENT NO. SD-45971-001														
SHEET NO. 4 OF 10														
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
		DIM R: HOUSING HEIGHT												
		POSITION	DIM M	MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		
		19	1.232	45971-0183		45971-0283		45971-0383		45971-0483		45971-0583		
		10	0.782	45971-1183		45971-1283		45971-1383		45971-1483		45971-1583		
		20	1.282	45971-2183		45971-2283		45971-2383		45971-2483		45971-2583		
		30	1.782	45971-3183		45971-3283		45971-3383		45971-3483		45971-3583		
		40	2.282	45971-4183		45971-4283		45971-4383		45971-4483		45971-4583		
		50	2.782	45971-5183		45971-5283		45971-5383		45971-5483		45971-5583		
		15	1.032	45971-6183		45971-6283		45971-6383		45971-6483		45971-6583		
		25	1.532	45971-7183		45971-7283		45971-7383		45971-7483		45971-7583		
		35	2.032	45971-8183		45971-8283		45971-8383		45971-8483		45971-8583		
45	2.532	45971-9183		45971-9283		45971-9383		45971-9483		45971-9583				
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	45971-0187		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		
		25	1.532	45971-7187		45971-7287		45971-7387		45971-7487		45971-7587		
		35	2.032	45971-8187		45971-8287		45971-8387		45971-8487		45971-8587		
45	2.532	45971-9187		45971-9287		45971-9387		45971-9487		45971-9587				
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	45971-0187		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		
		25	1.532	45971-7187		45971-7287		45971-7387		45971-7487		45971-7587		
		35	2.032	45971-8187		45971-8287		45971-8387		45971-8487		45971-8587		
45	2.532	45971-9187		45971-9287		45971-9387		45971-9487		45971-9587				
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	45971-0187		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		
		25	1.532	45971-7187		45971-7287		45971-7387		45971-7487		45971-7587		
		35	2.032	45971-8187		45971-8287		45971-8387		45971-8487		45971-8587		
45	2.532	45971-9187		45971-9287		45971-9387		45971-9487		45971-9587				
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		DESCRIPTION		REV		
O														

		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	45971-0111		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 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											
						mm	INCH	DRAWN BY DATE TGREGORI 2005/05/17		SEARAY RECEPTACLE ASSEMBLY .050 CENTERS													
				4 PLACES		± ---	± ---	CHECKED BY DATE JCOMERC I 2005/05/17															
				3 PLACES		± ---	± .005	APPROVED BY DATE JCOMERC I 2010/03/05															
				2 PLACES		± ---	± ---	MATERIAL NO. SEE CHART															
				1 PLACE		± ---	± ---	ANGULAR ± ---°		DOCUMENT NO. SD-45971-001		SHEET NO. 7 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									
		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											
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	NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 12 SOLDER CHARGE: TIN 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 O	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE INCH ONLY				SCALE 3:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION								
					mm	INCH	DRAWN BY TGREGORI		DATE 2005/05/17		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														
			2 PLACES		± ---	± ---	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45971-001										SHEET NO. 9 OF 10				
			1 PLACE		± ---	± ---	ANGULAR ± ---°				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																				
								</															

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

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)

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 2005/05/17

CHECKED BY

DATE

JCOMERC I 2005/05/17

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
3:1

DESIGN UNITS
INCH

 THIRD ANGLE PROJECTION

TITLE

SEARAY
RECEPTACLE ASSEMBLY
.050 CENTERS

 MOLEX INCORPORATED

DOCUMENT NO.

SHEET NO.

SD-45971-001

9 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	45971-0123		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																			
		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	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 O	GENERAL TOLERANCES (UNLESS SPECIFIED)		mm		INCH		DIMENSION STYLE INCH ONLY		SCALE 1:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION							
		4 PLACES		± ---		± ---		DRAWN BY TGREGORI		DATE 2005/05/17		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. 10 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													
		NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS NO OF ROWS: 12 SOLDER CHARGE: TIN / LEAD PACKAGING: TRAYS AND TAPE AND REEL																			
		tb_frame_A_P_AM_T Rev. E 2006/04/15																			
				5				4				3				2				1	