

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0459713383](#)
Status: **Active**
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Receptacle, 240 Circuits, 6.50mm (.255") Unmated Height, 8 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

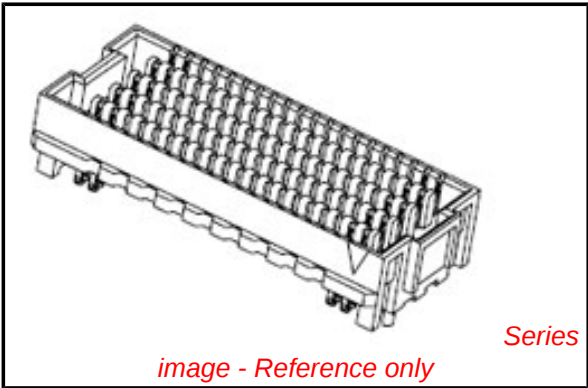
CSA LR19980
UL E29179

General

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

Physical

Circuits (Loaded) 240
Circuits (maximum) 240
Circuits Detail 240
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 8
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

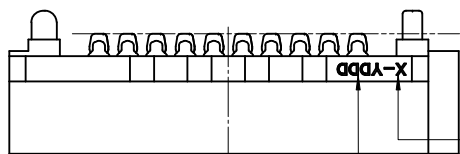
Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	230
Replacement RoHS Compliant Part Number	0459713381

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



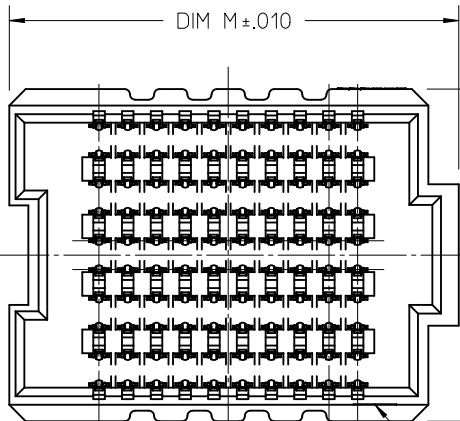
ACROSS ALL
SOLDER CHARGES

LEAD CODE:

1 = TIN

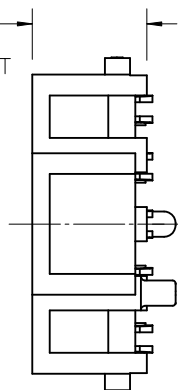
2 = TIN / LEAD

DIM M $\pm .010$



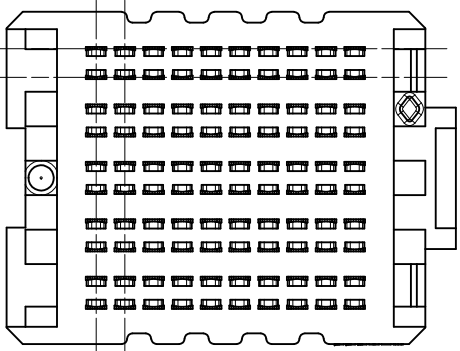
DIM C $\pm .010$

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

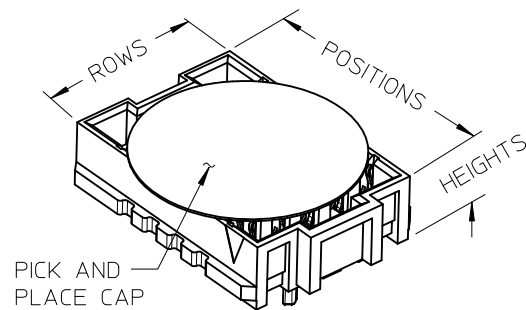


ROW 1 / POSITION 1 ID THIS SIDE

.050 TYP
TERMINAL PITCH



.050 TYP
TERMINAL PITCH



PICK AND
PLACE CAP

NOTES:

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: SEE CHART
5. MATES WITH SEARAY PLUG ASSEMBLY 45970
6. APPLICATION SPECIFICATION: AS-45970-001
7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
8. 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)		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	DATE 2005/05/17						
		3 PLACES	± ---	± .005	APPROVED BY JCOMERC		DATE 2010/03/05	MOLEX INCORPORATED				
		2 PLACES	± ---	± ---								
		1 PLACE	± ---	± ---	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45971-001					SHEET NO. 1 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					
		ANGULAR ± ---°										

6

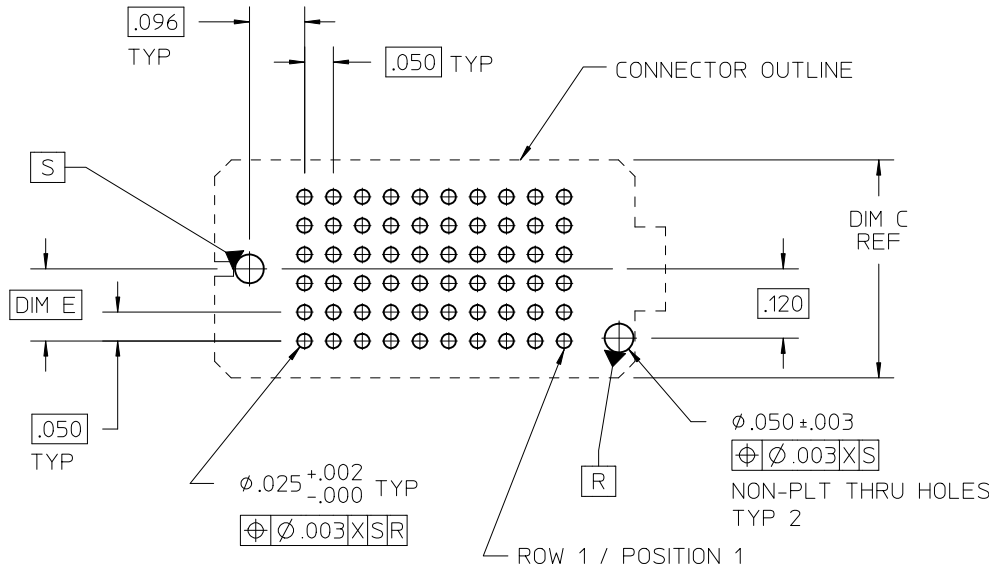
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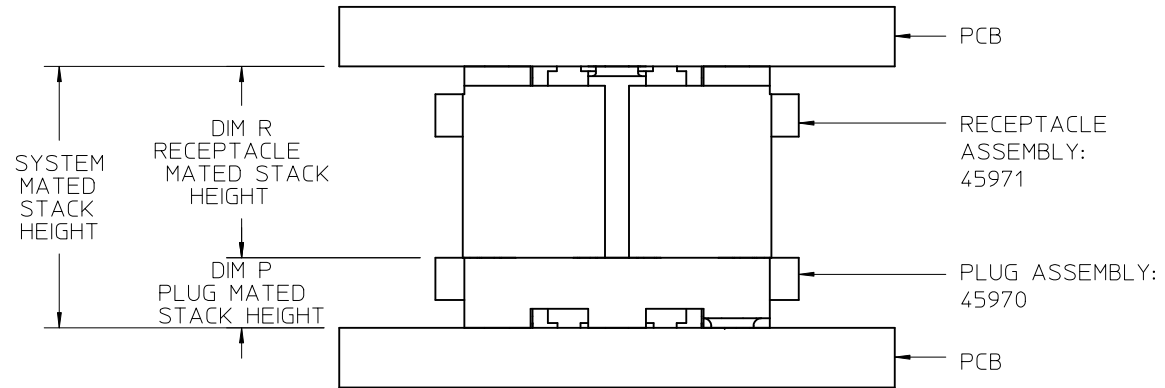


F
.005
MIN SOLDER
PASTE THICKNESS

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 R RECEPTACLE STACK HEIGHT					
		MM	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 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				
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		2 PLACES	± ---	± ---									
		1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
		ANGULAR ± ---°			SEE CHARTS		SD-45971-001		2 OF 10				
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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	45971-0161		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																											
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45	2.532	45971-9165		45971-9265		45971-9365		45971-9465		45971-9565																															
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1 PLACE	± ---	± ---																																																							
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DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION																																																					
DRAWN BY TGREGORI	DATE 2005/05/17	TITLE SEARAY RECEPTACLE ASSEMBLY .050 CENTERS																																																							
CHECKED BY JCOMERC I	DATE 2005/05/17																																																								
APPROVED BY JCOMERC I	DATE 2010/03/05	MOLEX INCORPORATED																																																							
MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45971-001		SHEET NO. 4 OF 10																																																					
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		45971-0181		45971-0281		45971-0381		45971-0481		45971-0581		
		10 0.782		45971-1181		45971-1281		45971-1381		45971-1481		45971-1581		
		20 1.282		45971-2181		45971-2281		45971-2381		45971-2481		45971-2581		
		30 1.782		45971-3181		45971-3281		45971-3381		45971-3481		45971-3581		
		40 2.282		45971-4181		45971-4281		45971-4381		45971-4481		45971-4581		
		50 2.782		45971-5181		45971-5281		45971-5381		45971-5481		45971-5581		
		15 1.032		45971-6181		45971-6281		45971-6381		45971-6481		45971-6581		
		25 1.532		45971-7181		45971-7281		45971-7381		45971-7481		45971-7581		
		35 2.032		45971-8181		45971-8281		45971-8381		45971-8481		45971-8581		
45 2.532		45971-9181		45971-9281		45971-9381		45971-9481		45971-9581				
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		45971-0185		45971-0285		45971-0385		45971-0485		45971-0585		
		10 0.782		45971-1185		45971-1285		45971-1385		45971-1485		45971-1585		
		20 1.282		45971-2185		45971-2285		45971-2385		45971-2485		45971-2585		
		30 1.782		45971-3185		45971-3285		45971-3385		45971-3485		45971-3585		
		40 2.282		45971-4185		45971-4285		45971-4385		45971-4485		45971-4585		
		50 2.782		45971-5185		45971-5285		45971-5385		45971-5485		45971-5585		
		15 1.032		45971-6185		45971-6285		45971-6385		45971-6485		45971-6585		
		25 1.532		45971-7185		45971-7285		45971-7385		45971-7485		45971-7585		
		35 2.032		45971-8185		45971-8285		45971-8385		45971-8485		45971-8585		
45 2.532		45971-9185		45971-9285		45971-9385		45971-9485		45971-9585				
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		45971-0185		45971-0285		45971-0385		45971-0485		45971-0585		
		10 0.782		45971-1185		45971-1285		45971-1385		45971-1485		45971-1585		
		20 1.282		45971-2185		45971-2285		45971-2385		45971-2485		45971-2585		
		30 1.782		45971-3185		45971-3285		45971-3385		45971-3485		45971-3585		
		40 2.282		45971-4185		45971-4285		45971-4385		45971-4485		45971-4585		
		50 2.782		45971-5185		45971-5285		45971-5385		45971-5485		45971-5585		
		15 1.032		45971-6185		45971-6285		45971-6385		45971-6485		45971-6585		
		25 1.532		45971-7185		45971-7285		45971-7385		45971-7485		45971-7585		
		35 2.032		45971-8185		45971-8285		45971-8385		45971-8485		45971-8585		
45 2.532		45971-9185		45971-9285		45971-9385		45971-9485		45971-9585				
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		45971-0185		45971-0285		45971-0385		45971-0485		45971-0585		
		10 0.782		45971-1185		45971-1285		45971-1385		45971-1485		45971-1585		
		20 1.282		45971-2185		45971-2285		45971-2385		45971-2485		45971-2585		
		30 1.782		45971-3185		45971-3285		45971-3385		45971-3485		45971-3585		
		40 2.282		45971-4185		45971-4285		45971-4385		45971-4485		45971-4585		
		50 2.782		45971-5185		45971-5285		45971-5385		45971-5485		45971-5585		
		15 1.032		45971-6185		45971-6285		45971-6385		45971-6485		45971-6585		
		25 1.532		45971-7185		45971-7285		45971-7385		45971-7485		45971-7585		
		35 2.032		45971-8185		45971-8285		45971-8385		45971-8485		45971-8585		
45 2.532		45971-9185		45971-9285		45971-9385		45971-9485		45971-9585				
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: 8

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.

SIZE

SEE CHART

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.

SHEET NO.

SD-45971-001

5 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	45971-0183		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		
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		
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		
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		
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 CH'KD: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 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				

		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		
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		
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	45971-0115		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		
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	45971-0115		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		
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
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

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
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.
7 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	45971-0113		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		
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)														
DIMENSION STYLE INCH ONLY														
SCALE 1:1														
DESIGN UNITS INCH														
THIRD ANGLE PROJECTION														
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														
DOCUMENT NO. SD-45971-001														
SHEET NO. 8 OF 10														
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
SIZE A														
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														
ANGULAR ±---°														
4 PLACES ±--- mm ±--- INCH														
3 PLACES ±--- ±.005														
2 PLACES ±--- ±---														
1 PLACE ±--- ±---														
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	45971-0121		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	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 3:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION		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		DOCUMENT NO. SD-45971-001		SHEET NO. 9 OF 10			
																						4 PLACES ± --- ± ---	
																						3 PLACES ± --- ± .005	
																						2 PLACES ± --- ± ---	
																						1 PLACE ± --- ± ---	
																						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	45971-0123		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	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE INCH ONLY		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION						
				4 PLACES		± ---	± ---	DRAWN BY DATE TGREGORI 2005/05/17		SEARAY RECEPTACLE ASSEMBLY .050 CENTERS MOLEX INCORPORATED							
				3 PLACES		± ---	± .005	CHECKED BY DATE JCOMERC I 2005/05/17									
				2 PLACES		± ---	± ---	APPROVED BY DATE JCOMERC I 2010/03/05									
				1 PLACE		± ---	± ---	MATERIAL NO. SEE CHART									
				ANGULAR ± ---°			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A		DOCUMENT NO. SD-45971-001		SHEET NO. 10 OF 10				
				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			