

Excellent Integrated System Limited

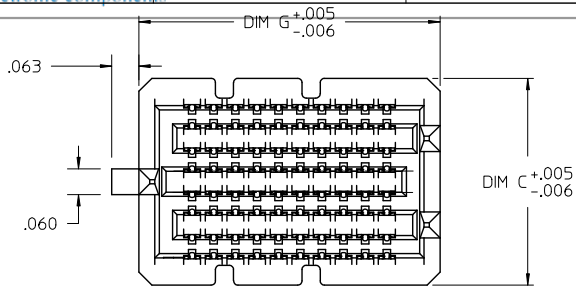
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)
[0459700163](#)

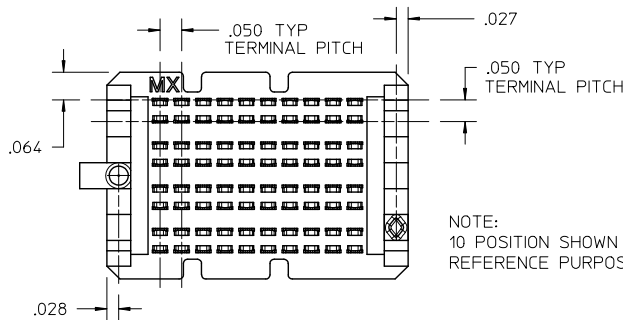
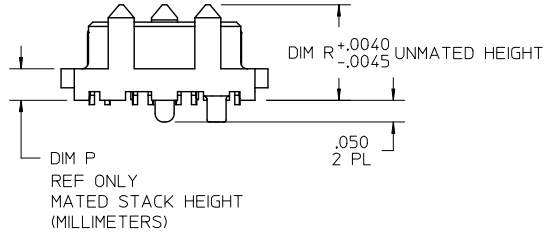
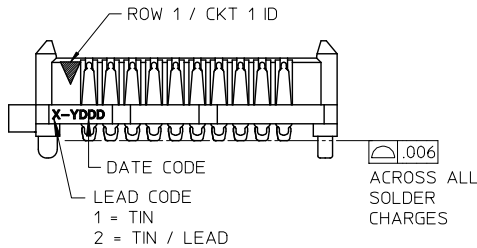
For any questions, you can email us directly:

sales@integrated-circuit.com



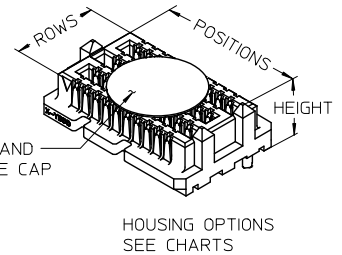
NOTES:

- MATERIAL: HOUSING: LCP, UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: TIN, 95.5/ Ag 3.8/ Cu 0.7
- FINISH: SELECT GOLD IN CONTACT AREA: 30 MICROINCHES MINIMUM
SELECT GOLD FLASH IN TAIL, 7 MICROINCHES MINIMUM OVER NICKEL
- PRODUCT SPECIFICATION: PS-45970-001
- PACKAGING SPECIFICATION: TAPE AND REEL PACK, REFERENCE RPK-45971-009
- MATES WITH SEARAY RECEPTACLE ASSY 45971
- APPLICATION SPECIFICATION: AS-45970-001
- COSMETIC SPECIFICATION: PS-45499-002 CLASS B
- PART STATUS: CONTACT MOLEX

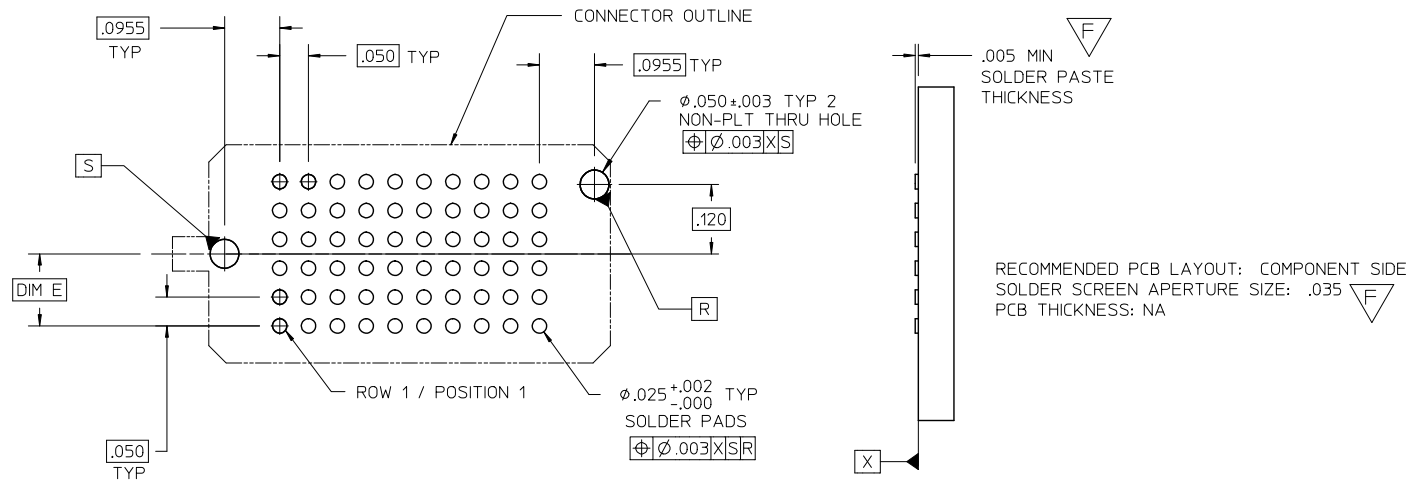


NOTE:
10 POSITION SHOWN FOR
REFERENCE PURPOSES ONLY.

NO OF ROWS	8
POSITIONS	40
DIM C	.478
DIM E	.175
DIM G	2.196
DIM P	2.0 MM
DIM R	.221

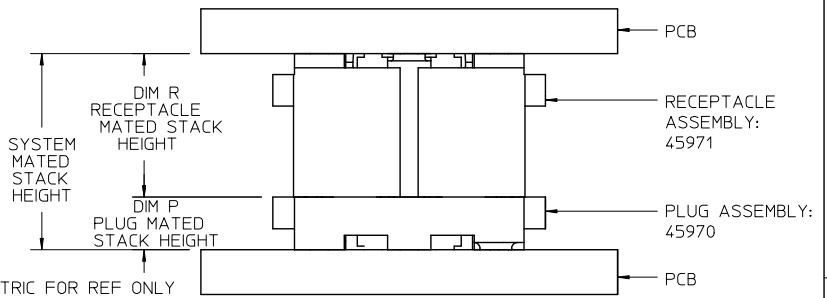


REV. NOTE 4 TO REF: RPK-45970-009 EC NO: UCP2015-3314 DRWN: SWANG01 2015/08/12 CHKD: BBARKER 2015/08/12 APPR: SMILLER 2015/08/14	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 3:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		4 PLACES	±---	±---	DRAWN BY RWHIPPLE	DATE 2014/04/18	TITLE SEARAY PLUG ASSEMBLY .050 CENTERS molex MATERIAL NO. 45970-4130 DOCUMENT NO. RSD-45970-4130 SHEET NO. 1 OF 2		
		3 PLACES	±---	±.010	CHECKED BY BBARKER	DATE 2014/04/18			
		2 PLACES	±---	±.015	APPROVED BY SMILLER	DATE 2014/05/22			
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					



DIM P PLUG STACK HEIGHT	MM	DIM R RECEPTACLE STACK HEIGHT				
		5.0	6.0	6.5	7.5	8.0
	2.0	7.0	8.0	8.5	9.5	10.0

MATED STACK HEIGHTS
(MILLIMETERS) REF



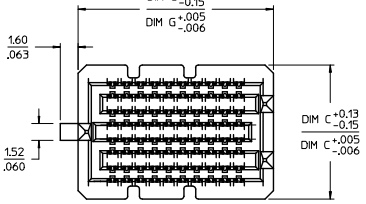
STACK HEIGHTS GIVEN IN METRIC FOR REF ONLY

SEE SHEET 1 EC NO: UCP2015-3314 DRWN: SVANG01 2015/08/12 CHKD: BBARKER 2015/08/12 APPR: SMILLER 2015/08/14	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm	INCH	INCH ONLY	4:1	INCH	
	▽=0	4 PLACES ± ---	± ---	RWHIPPLE	DATE	TITLE	
	▽=0	3 PLACES ± ---	± .010	DATE	2014/04/18	SEARAY PLUG ASSEMBLY .050 CENTERS	
	▽=0	2 PLACES ± ---	± .015	BBARKER	2014/04/18		
	1 PLACE ± ---	± ---	APPROVED BY	DATE	molex DOCUMENT NO. RSD-45970-4130 SHEET NO. 2 OF 2		
	0 PLACE ±	±	SMILLER	2014/05/22			
		ANGULAR ± --- °		MATERIAL NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1			
				SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

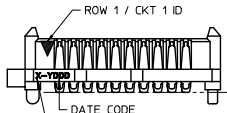
10 9 8 7 6 5 4 3 2 1

NOTES:

1. MATERIAL: HOUSING: GLASS FILLED LCP (LIQUID CRYSTAL POLYMER), UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: 95.5% TIN, 3.8% SILVER, 0.7% COPPER
2. FINISH: ALL DIM P HEIGHT OPTIONS - SELECT GOLD IN CONTACT AREA: 30 MICROINCH MINIMUM
DIM P HEIGHT OPTIONS 2.0 & 2.5: SELECT GOLD FLASH ON TAIL, 7 MICROINCH MINIMUM
DIM P HEIGHT OPTIONS 3.0 THRU 7.0: SELECT TIN ON TAIL, 50 MICROINCH MINIMUM
ALL OPTIONS - NICKEL UNDERPLATE OVERALL ON TAIL
3. PRODUCT SPECIFICATION: PS-45970-001
4. PACKAGING SPECIFICATION: PK-45971-002 (TAPE AND REEL)
5. MATES WITH SEARAY RECEPTACLE ASSEMBLY SERIES 45971
6. APPLICATION SPECIFICATION: AS-45970-001
7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
8. PART STATUS: CONTACT MOLEX

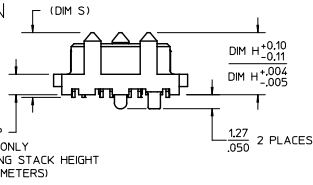


8 ROW
10 POSITION
SHOWN

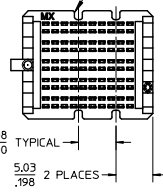


SEE TABLE
ACROSS ALL
SOLDER
CHARGES

NOTE: THESE CODES MAY BE LOCATED
ON EITHER SIDE OF THE HOUSING

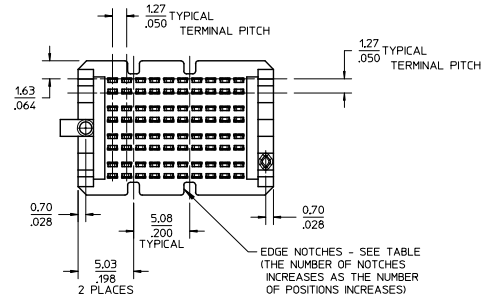


EDGE NOTCHES - SEE TABLE
(THE NUMBER OF NOTCHES
INCREASES AS THE NUMBER
OF POSITIONS INCREASES)



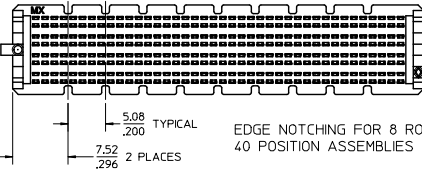
EDGE NOTCHING FOR
10 ROW ASSEMBLIES
(10 POSITION SHOWN)

POSITIONS	TOTAL NUMBER OF EDGE NOTCHES		D
	8 ROW	6 AND 10 ROW	
10	4	4	0.15/.006
15	6	6	
20	10	10	
25	12	12	
30	14	14	
35	16	16	0.23/.009
40	18	20	
45	22	22	
50	24	24	
50	24	24	

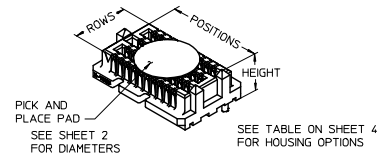


SEE OTHER EDGE NOTCHING VIEWS

SEE SHEET 3
FOR 6 ROW OPTION

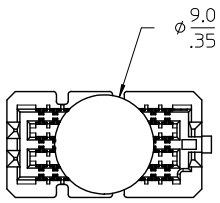


EDGE NOTCHING FOR 8 ROW,
40 POSITION ASSEMBLIES

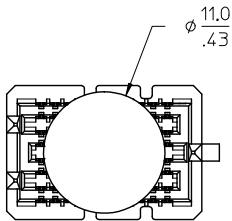


ADD REF DIM S @ D7 EC NO: IICP/2016-3194 DRAWN/TRENO 2016/02/15 CHKD/PTD 2016/02/16 APPR/INCD/DMAN 2016/02/16 12 REV	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 3:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	3 PLACES ± --- ± .010	2 PLACES ± 0.25 ± .015	1 PLACE ± 0.38 ± ---	0 PLACE ± ±	DRAWN BY TGREGOR I	DATE 2005/01/27	TITLE SEARAY PLUG ASSEMBLY 1.27/.050 CENTERS	
		ANGULAR ± --- ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					APPROVED BY JCOMERC I	DATE 2010/03/05	DOCUMENT NO. SD-45970-001	
							MATERIAL NO. SEE TABLE SHT 4	SHEET NO. 1 OF 5		

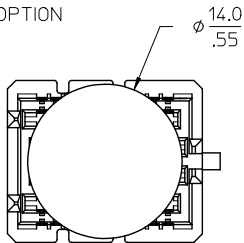
10 9 8 7 6 5 4 3 2 1



6 ROW OPTION

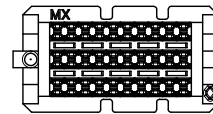
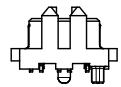
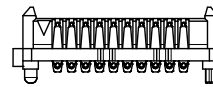
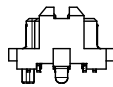
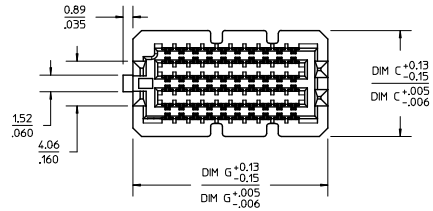


8 ROW OPTION



10 ROW OPTION

PICK AND PLACE
PAD DIAMETERS
10 POSITION VERSIONS SHOWN



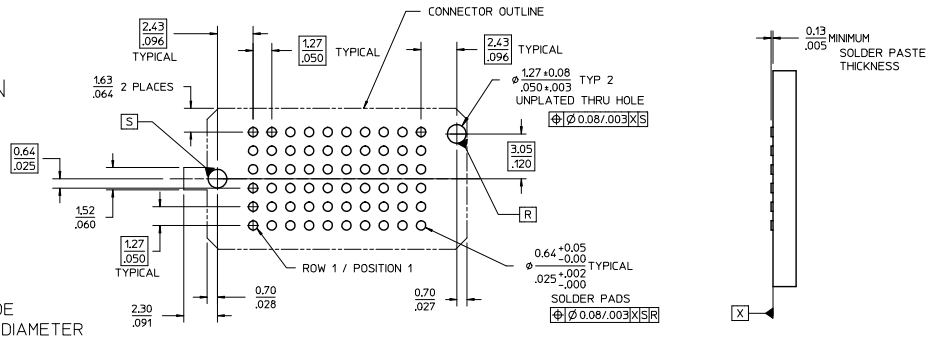
6 ROW OPTION

10 POSITION VERSION
SHOWN FOR REFERENCE
DIMENSIONS SHOWN ON
OTHER SHEETS APPLY TO
THE 6 ROW OPTION ALSO
(EXCEPT AS OTHERWISE
NOTED ON THIS SHEET)

SEE SHEET 1 EC NO: UCP2016-3194 DRAWN BY: 2016/02/15 CHKD BY: 2016/02/16 APPROVED BY: 2016/02/16	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			mm	INCH	MM/IN	3:1	INCH	
		4 PLACES	± .---	± .---	DRAWN BY: T GREGORI	DATE: 2005/01/27	TITLE: SEARAY PLUG ASSEMBLY 1.27/.050 CENTERS	
		3 PLACES	± .---	± .010	CHECKED BY: B BARKER	DATE: 2014/08/07		
		2 PLACES	± 0.25	± .015	APPROVED BY: J COMERCI	DATE: 2010/03/05	DOCUMENT NO. SD-45970-001 SHEET NO. 2 OF 5	
		1 PLACE	± 0.38	± .---	MATERIAL NO. SEE TABLE SHT 4			
		0 PLACE	±	±	SIZE B THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

10 9 8 7 6 5 4 3 2 1

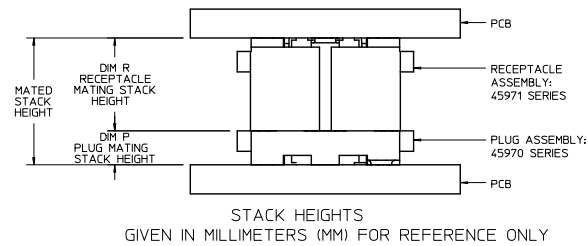
6 ROW
10 POSITION
SHOWN



RECOMMENDED PCB LAYOUT: COMPONENT SIDE
SOLDER SCREEN APERTURE SIZE: .890/.035 DIAMETER
PCB THICKNESS: NA

		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	10.0
	3.0	8.0	9.0	9.5	10.5	11.0	11.0
	3.5	8.5	9.5	10.0	11.0	11.5	11.5
	2.5	7.5	8.5	9.0	10.0	10.5	10.5
	4.5	9.5	10.5	11.0	12.0	12.5	12.5
	5.0	10.0	11.0	11.5	12.5	13.0	13.0
	7.0	12.0	13.0	13.5	14.5	15.0	15.0
9.0	14.0	15.0	15.5	16.5	17.0	17.0	

MATED STACK HEIGHTS
GIVEN IN MILLIMETERS (MM) FOR REFERENCE ONLY



SEE SHEET 1 EC NO: IUCP2016-3194 DRAWN BY: 2016/02/15 CHECKED BY: 2016/02/16 APPROVED BY: 2016/02/16	QUALITY SYMBOLS $\nabla=0$ $\nabla=0$ $\nabla=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				MM/IN		4:1	INCH			
				mm	INCH	DRAWN BY: T GREGORI DATE: 2005/01/27			TITLE: SEARAY PLUG ASSEMBLY 1.27/.050 CENTERS	
						CHECKED BY: B BARKER DATE: 2014/08/07			DOCUMENT NO. SD-45970-001	
		ANGULAR ±---°		MATERIAL NO.		SHEET NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE SHT 4		3 OF 5				
				SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

ROWS: 6 DIMENSION C = 9.60/.378

DIM P:	2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM
DIM H:	5.61/221	6.60/260	7.11/280	6.12/241	8.10/319	8.61/339	10.61/418
DIM S:	5.86/231	6.85/270	7.36/290	6.37/251	8.35/329	8.86/349	10.86/428
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
10	17.69/0.698	45970-1165	45970-1265	45970-1365	45970-1465	45970-1565	45970-1765
20	30.39/1.198	45970-2165	45970-2265	45970-2365	45970-2465	45970-2565	45970-2765
30	43.09/1.698	45970-3165	45970-3265	45970-3365	45970-3465	45970-3565	45970-3765
40	55.79/2.198	45970-4165	45970-4265	45970-4365	45970-4465	45970-4565	45970-4765
50	68.49/2.698	45970-5165	45970-5265	45970-5365	45970-5465	45970-5565	45970-5765
15	24.04/0.948	45970-6165	45970-6265	45970-6365	45970-6465	45970-6565	45970-6765
25	36.74/1.448	45970-7165	45970-7265	45970-7365	45970-7465	45970-7565	45970-7765
35	49.44/1.948	45970-8165	45970-8265	45970-8365	45970-8465	45970-8565	45970-8765
45	62.14/2.448	45970-9165	45970-9265	45970-9365	45970-9465	45970-9565	45970-9765

ROWS: 8 DIMENSION C = 12.14/.478

DIM P:	2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM
DIM H:	5.61/221	6.60/260	7.11/280	6.12/241	8.10/319	8.61/339	10.61/418
DIM S:	5.86/231	6.85/270	7.36/290	6.37/251	8.35/329	8.86/349	10.86/428
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
10	17.69/0.698	45970-1185	45970-1285	45970-1385	45970-1485	45970-1585	45970-1785
20	30.39/1.198	45970-2185	45970-2285	45970-2385	45970-2485	45970-2585	45970-2785
30	43.09/1.698	45970-3185	45970-3285	45970-3385	45970-3485	45970-3585	45970-3785
40	55.79/2.198	45970-4185	45970-4285	45970-4385	45970-4485	45970-4585	45970-4785
50	68.49/2.698	45970-5185	45970-5285	45970-5385	45970-5485	45970-5585	45970-5785
15	24.04/0.948	45970-6185	45970-6285	45970-6385	45970-6485	45970-6585	45970-6785
25	36.74/1.448	45970-7185	45970-7285	45970-7385	45970-7485	45970-7585	45970-7785
35	49.44/1.948	45970-8185	45970-8285	45970-8385	45970-8485	45970-8585	45970-8785
45	62.14/2.448	45970-9185	45970-9285	45970-9385	45970-9485	45970-9585	45970-9785

MATING STACK HEIGHTS (DIMENSION P)
GIVEN IN MILLIMETERS (MM) FOR REFERENCE ONLY

SEE SHEET 1 E.C. NO: ICP2016-3194 DRAWN/PREP'D 2016/02/15 CHK'D/TEO 2016/02/16 APPR'D/COMMAN 2016/02/16 REV T2	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\nabla=0$ $\nabla=0$ $\nabla=0$	4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .015 1 PLACE ± 0.38 ± --- 0 PLACE ± ±	MM/IN	DRAWN BY	DATE	4:1	INCH	TITILE SEARAY PLUG ASSEMBLY 1.27/.050 CENTERS
		ANGULAR ± --- °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY BBARKER 2014/08/07	DATE 2005/01/27			APPROVED BY JCOMERC I 2010/03/05
				MATERIAL NO.	DATE			DOCUMENT NO. SD-45970-001

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

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

ROWS: 10 DIMENSION C = 14.68/578

DIM P:	2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM	9.0 MM
DIM H:	5.61/221	6.60/260	7.11/280	6.12/241	8.10/319	8.61/339	10.61/418	12.62/497
DIM S:	5.86/231	6.85/270	7.36/290	6.37/251	8.35/329	8.86/349	10.86/428	12.87/507
POSITION	DIM G	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO
10	17.69/0.698	45970-1115	45970-1215	45970-1315	45970-1415	45970-1515	45970-1615	45970-1715
20	30.39/1.198	45970-2115	45970-2215	45970-2315	45970-2415	45970-2515	45970-2615	45970-2715
30	43.09/1.698	45970-3115	45970-3215	45970-3315	45970-3415	45970-3515	45970-3615	45970-3715
40	55.79/2.198	45970-4115	45970-4215	45970-4315	45970-4415	45970-4515	45970-4615	45970-4715
50	68.49/2.698	45970-5115	45970-5215	45970-5315	45970-5415	45970-5515	45970-5615	45970-5715
15	24.04/0.948	45970-6115	45970-6215	45970-6315	45970-6415	45970-6515	45970-6615	45970-6715
25	36.74/1.448	45970-7115	45970-7215	45970-7315	45970-7415	45970-7515	45970-7615	45970-7715
35	49.44/1.948	45970-8115	45970-8215	45970-8315	45970-8415	45970-8515	45970-8615	45970-8715
45	62.14/2.448	45970-9115	45970-9215	45970-9315	45970-9415	45970-9515	45970-9615	45970-9715

SEE SHEET 1 EC NO: IJCP2016-3194 DRAWN: PREMO 2016/02/15 CHECKED: 2016/02/16 APPROVED: GOMAN 2016/02/16	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\sqrt{\text{A}}=0$ $\sqrt{\text{B}}=0$ $\sqrt{\text{C}}=0$	mm	INCH	MM/IN		4:1	INCH	
		4 PLACES ± --- ± ---	3 PLACES ± --- ± .010	DRAWN BY	DATE	TITLE		
		2 PLACES ± 0.25 ± .015	1 PLACE ± 0.38 ± ---	TGREGORI	2005/01/27	SEARAY PLUG ASSEMBLY 1.27/.050 CENTERS molex		
	0 PLACE ± ±	ANGULAR ± --- °	BBARKER	2014/08/07	DOCUMENT NO.			
12	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		JCOMERC	2010/03/05	SD-45970-001	5 OF 5	
				MATERIAL NO. 999999999		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

9 8 7 6 5 4 3 2 1