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Part Number: [0465567145](#)
Status: **Active**
Description: 1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Slim Plug, 100 Circuits, 2.00mm (.078") Unmated Height, 4 Rows, With Pegs, Solder Charge™ Lead-free

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

Agency Certification

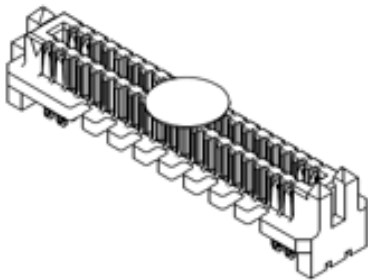
CSA LR19980
UL E29179

General

Product Family PCB Headers
Series [46556](#)
Application Board-to-Board
Product Name SEARAY*

Physical

Breakaway No
Circuits (Loaded) 100
Circuits (maximum) 100
Circuits Detail 100
Color - Resin Black
Durability (mating cycles max) 100
First Mate / Last Break No
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part Yes
Keying to Mating Part None
Lock to Mating Part None
Material - Metal Copper Alloy
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 4
Orientation Vertical
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 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
Polarized to Mating Part Yes
Polarized to PCB Yes
Robotic Placement Pick and Place Cap
Shrouded No
Stackable No
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -55°C to +125°C
Termination Interface: Style Surface Mount



Series

image - Reference only

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
[46556Series](#)

Mates With
[46557](#) SEARAY* Slim Receptacles

Electrical

Current - Maximum per Contact	1A
Voltage - Maximum	240V AC

Solder Process Data

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

Material Info

Reference - Drawing Numbers

Product Specification	PS-45970-001
Sales Drawing	SD-46556-001

*SEARAY is a trademark of Samtec, Inc.

This document was generated on 03/24/2010

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6

5

4

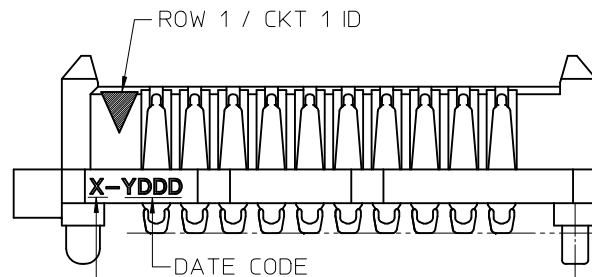
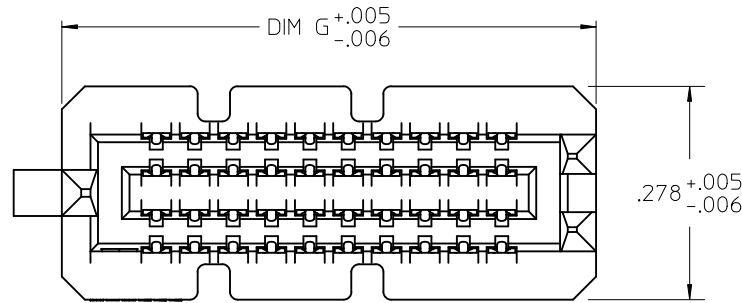
3

2

1

NOTES:

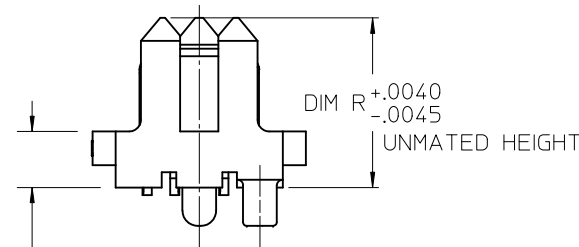
1. MATERIALS: HOUSING: LCP, UL94V-0, BLACK
CONTACTS: COPPER ALLOY
SOLDER CHARGE: SEE CHART
2. FINISH: ALL OPTIONS - SELECT GOLD IN CONTACT AREA: 30 MI MIN
OPTIONS 2.0 & 2.5: SELECT GOLD FLASH IN TAIL, 7 MI MIN
OPTIONS 3.0 THRU 7.0: SELECT TIN IN TAIL, 100 MI MIN
ALL OPTIONS - OVER NICKEL
3. PRODUCT SPECIFICATION: PS-45970-001
4. PACKAGING SPECIFICATION: PK-45970-002
5. MATES WITH SEARAY RECPT ASSEMBLY 46557
6. APPLICATION SPECIFICATION: AS-45970-001
7. COSMETIC SPECIFICATION: PS-45499-002 CLASS B
8. PART STATUS: CONTACT MOLEX



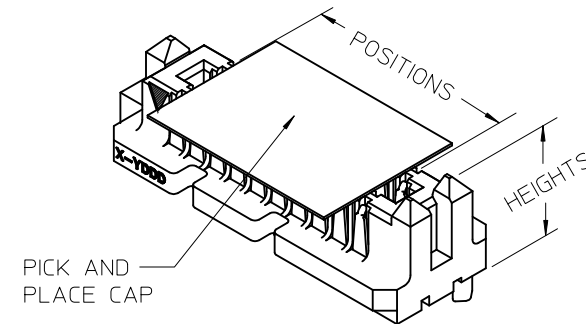
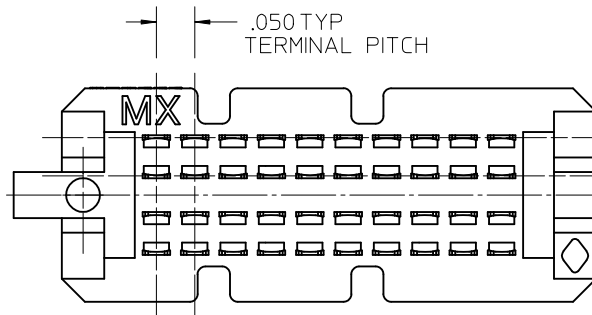
LEAD CODE:
1 = TIN
2 = TIN / LEAD



ACROSS ALL
SOLDER
CHARGES



DIM P
REF ONLY
MATED STACK
HEIGHT
(MILLIMETERS)



POSITIONS	DIM G	
10	.696	.006
15	.946	.006
20	1.196	.006
25	1.446	.006
30	1.696	.006
35	1.946	.006
40	2.196	.006
45	2.446	.009
50	2.696	.009

UPDATED NOTE 2 EC NO: UCP2010-2270 DRWN:TREGORI 2010/03/05 CH'KD:JCOMERC I 2007/05/17 APPR:JCOMERC I 2010/03/05		DESCRIPTION <
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6		5		4		3		2		1																
DIM P	2.0 MM	3.0 MM	3.5 MM	2.5 MM	4.5 MM	5.0 MM	7.0 MM																			
DIM R: HOUSING HEIGHT:	.221	.260	.280	.241	.319	.339	.418																			
POSITIONS	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO	MATERIAL NO																			
10	46556-1145	46556-1245	46556-1345	46556-1445	46556-1545	46556-1645	46556-1745																			
20	46556-2145	46556-2245	46556-2345	46556-2445	46556-2545	46556-2645	46556-2745																			
30	46556-3145	46556-3245	46556-3345	46556-3445	46556-3545	46556-3645	46556-3745																			
40	46556-4145	46556-4245	46556-4345	46556-4445	46556-4545	46556-4645	46556-4745																			
50	46556-5145	46556-5245	46556-5345	46556-5445	46556-5545	46556-5645	46556-5745																			
15	46556-6145	46556-6245	46556-6345	46556-6445	46556-6545	46556-6645	46556-6745																			
25	46556-7145	46556-7245	46556-7345	46556-7445	46556-7545	46556-7645	46556-7745																			
35	46556-8145	46556-8245	46556-8345	46556-8445	46556-8545	46556-8645	46556-8745																			
45	46556-9145	46556-9245	46556-9345	46556-9445	46556-9545	46556-9645	46556-974																			
NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS SOLDER CHARGE: TIN																										
												SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2007/05/17 APPR: JCOMERCI 2010/03/05 DESCRIPTION REV GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE INCH ONLY DRAWN BY TGREGORI DATE 2007/05/17 CHECKED BY JCOMERCI DATE 2007/05/17 APPROVED BY JCOMERCI DATE 2010/03/05 MATERIAL NO. SIZE A SCALE 1:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION TITLE SEARAY SLIM PLUG ASSEMBLY .050 PITCH MOLEX MOLEX INCORPORATED DOCUMENT NO. SD-46556-001 SHEET NO. 3 OF 4 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
																				tb_frame_A_P_AM_T		5	4	3	2	1
																				Rev. E 2006/04/15						

		6		5		4		3		2		1					
DIM P		2.0 MM		3.0 MM		3.5 MM		2.5 MM		4.5 MM		5.0 MM		7.0 MM			
DIM R: HOUSING HEIGHT:																	
POSITIONS		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO		MATERIAL NO			
10		46556-1147		46556-1247		46556-1347		46556-1447		46556-1547		46556-1647		46556-1747			
20		46556-2147		46556-2247		46556-2347		46556-2447		46556-2547		46556-2647		46556-2747			
30		46556-3147		46556-3247		46556-3347		46556-3447		46556-3547		46556-3647		46556-3747			
40		46556-4147		46556-4247		46556-4347		46556-4447		46556-4547		46556-4647		46556-4747			
50		46556-5147		46556-5247		46556-5347		46556-5447		46556-5547		46556-5647		46556-5747			
15		46556-6147		46556-6247		46556-6347		46556-6447		46556-6547		46556-6647		46556-6747			
25		46556-7147		46556-7247		46556-7347		46556-7447		46556-7547		46556-7647		46556-7747			
35		46556-8147		46556-8247		46556-8347		46556-8447		46556-8547		46556-8647		46556-8747			
45		46556-9147		46556-9247		46556-9347		46556-9447		46556-9547		46556-9647		46556-9747			
NOTES: 1. THIS SHEET CONTAINS THE FOLLOWING OPTIONS SOLDER CHARGE: TIN / LEAD																	
SEE SHEET 1 EC NO: UCP2010-2270 DRWN: TGREGORI 2010/03/05 CHKD: JCOMERCI 2007/05/17 APPR: JCOMERCI 2010/03/05		DESCRIPTION		REV		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE INCH ONLY		SCALE 1:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION			
						mm INCH		DRAWN BY DATE		TITLE SEARAY SLIM PLUG ASSEMBLY .050 PITCH							
						4 PLACES ± --- ± ---		TGREGORI 2007/05/17									
						3 PLACES ± --- ± .005		CHECKED BY DATE				APPROVED BY DATE		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-46556-001	
						2 PLACES ± --- ± ---		JCOMERCI 2007/05/17									
1 PLACE ± --- ± ---		JCOMERCI 2010/03/05		ANGULAR ±1/2°													
						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					

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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