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Part Number: [0022436080](#)
Status: **Active**
Description: 2.50mm (.098") Pitch SPOX™ Header, Shrouded, Staggered Footprint, 8 Circuits, White

Documents:

[3D Model](#) [Product Specification PS-42219-0001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

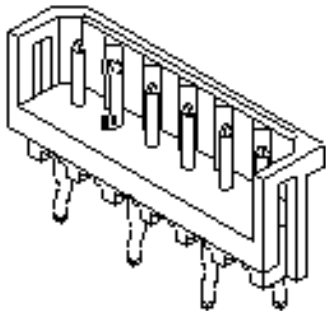
Product Family PCB Headers
Series [42249](#)
Application Wire-to-Board
Product Name SPOX™

Physical

Breakaway No
Circuits (Loaded) 8
Circuits (maximum) 8
Color - Resin Natural
Durability (mating cycles max) 25
Flammability 94V-0
Glow-Wire Compliant No
Lock to Mating Part None
Material - Plating Mating Tin
Material - Plating Termination Tin
Material - Resin Polyester
Number of Rows 1
Orientation Vertical
PC Tail Length (in) 0.130 In
PC Tail Length (mm) 3.30 mm
PCB Locator No
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Bag
Pitch - Mating Interface (in) 0.098 In
Pitch - Mating Interface (mm) 2.50 mm
Plating min: Mating (µin) 101.6
Plating min: Mating (µm) 2.54
Plating min: Termination (µin) 101.6
Plating min: Termination (µm) 2.54
Polarized to Mating Part Yes
Polarized to PCB No
Shrouded Partial
Stackable No
Temperature Range - Operating 0°C to +75°C
Termination Interface: Style Through Hole

Electrical

Current - Maximum per Contact 3A
Voltage - Maximum 250V



Series
image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**Halogen-Free
Status**

China RoHS



Not Reviewed

**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
[42249Series](#)

Mates With
[42219](#)

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

Material Info

Old Part Number	A-42249-8A
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Reference - Drawing Numbers

Application Specification	AS-42249-001
Product Specification	PS-42219-0001
Sales Drawing	SDA-42249-*

This document was generated on 06/08/2010

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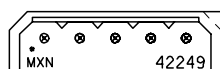
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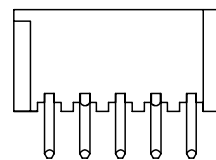
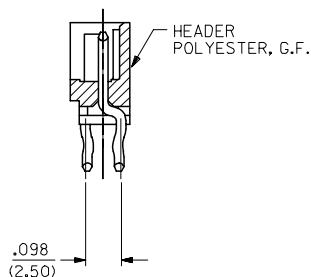
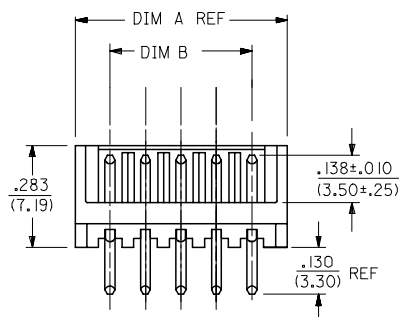
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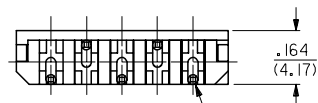


SQUARE CORNER IS CKT I
IDENTIFIER

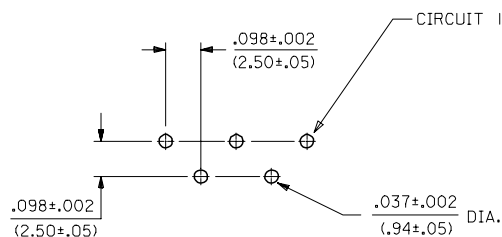


NOTES:

- 1) MATERIAL: HEADER : PLOYESTER, GLASS FILLED.
PIN : BRASS.
- 2) FINISH:
(154) --100 MICROINCHES (2.54 MICROMETERS) MIN. TIN OVER
50 MICROINCHES (1.27 MICROMETERS) MIN. NICKEL UNDERPLATE.
- 3) PRODUCT SPECS: PS-42219-0001.
- 4) PACKAGING: PARTS MUST BE PACKAGED IN A 9" X12" ANTI-STATIC
POLY-BAG BEFORE PLACING IN CORRUGATED SHIPPING CARTON.
- 5) ANY VOID COMBINATION LEAVING PINS IN ONE ROW ONLY IS NOT AN AVAILABLE
OPTION. THE RESULTS WOULD BE MINIMAL BOARD RETENTION.



CIRCUIT I



PCB HOLE LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062 (1.57)

NO. OF CKTS.	KINK LOC.	DIM A IN/(MM)	DIM B IN/(MM)
2	ALL PINS	.292/(7.42)	.098/(2.50)
3	ALL PINS	.391/(9.92)	.197/(5.00)
4	ALL PINS	.489/(12.42)	.295/(7.50)
5	ALL PINS	.587/(14.92)	.394/(10.00)
6	ALL PINS	.685/(17.40)	.492/(12.50)
7	ALL PINS	.783/(19.90)	.591/(15.00)
8	ALL PINS	.882/(22.40)	.689/(17.50)
9	ALL PINS	.980/(24.90)	.787/(20.00)
10	ALL PINS	1.079/(27.40)	.886/(22.50)
11	ALL PINS	1.177/(29.90)	.984/(25.00)
12	ALL PINS	1.276/(32.40)	1.083/(27.50)
13	ALL PINS	1.374/(34.90)	1.181/(30.00)
14	ALL PINS	1.472/(37.40)	1.280/(32.50)
15	ALL PINS	1.571/(39.90)	1.378/(35.00)

A-42249-N*-*-*

COLOR OPTION NO. OF CKTS. PART
BLANK = STANDARD
SP = SPECIAL
VOID LOCATION

REPLACE PIN 42238 EC NO: UCP2006-0509 2006/03/08 DRAWN: AELHAG CHKD: 2006/03/28 APPR: FSI TH 2006/03/29 REV DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽≠0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			mm	INCH	DRAWN BY	DATE	TITLE 2.5 MM HEADER ASSEMBLY (STAGGERED PINS)	MOLEX MOLEX INCORPORATED	SHEET NO. 1 OF 4
		4 PLACES	± ---	± ---	RE	12/17/88			
		3 PLACES	± ---	± .010	CHECKED BY	DATE			
		2 PLACES	± 0.25	± .015	WRL	12/17/88			
		1 PLACE	± 0.38	± ---	APPROVED BY	DATE			
		ANGULAR ±1/2°		LENZ		12/17/88			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.			
				SEE CHART		SDA-42249-*			
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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A-42249-NA-*				A-422649-NB-*				A-42249-NC-*				
OPTIONS	HOUSING	42249-N		OPTIONS	HOUSING	42249-NA		OPTIONS	HOUSING	42249-NB		
	COLOR	WHITE			COLOR	BLUE			COLOR	BROWN		
	PIN NO	45613-0001			PIN NO	45613-0001			PIN NO	45613-0001		
	PLATING	154			PLATING	154			PLATING	154		
Ckt	Material No	Engineering No	Void Ckts	Ckt	Material No	Engineering No	Void Ckts	Ckt	Material No	Engineering No	Void Ckts	
2	22-43-6020	A-42249-2A		2	22-44-7026	A-42249-2B		2	22-44-7025	A-42249-2C		
3	22-43-6030	A-42249-3A		3	22-44-7036	A-42249-3B		3	22-44-7035	A-42249-3C		
4	22-43-6040	A-42249-4A		4	22-44-7046	A-42249-4B		4	22-44-7045	A-42249-4C		
5	22-43-6050	A-42249-5A		5	22-44-7056	A-42249-5B		5	22-44-7055	A-42249-5C		
6	22-43-6060	A-42249-6A		6		A-42249-6B		6	22-44-7065	A-42249-6C		
7	22-43-6070	A-42249-7A		7		A-42249-7B		7	22-44-7075	A-42249-7C		
8	22-43-6080	A-42249-8A		8		A-42249-8B		8	22-44-7085	A-42249-8C		
9	22-43-6090	A-42249-9A		9		A-42249-9B		9	22-44-7095	A-42249-9C		
10	22-43-6100	A-42264910A		10		A-42264910B		10	22-44-7105	A-42249-10C		
11	22-43-6110	A-42249-11A		11		A-42249-11B		11	22-44-7115	A-42249-11C		
12	22-43-6120	A-42249-12A		12		A-42249-12B		12	22-44-7125	A-42249-12C		
13	22-43-6130	A-42249-13A		13		A-42249-13B		13	22-44-7135	A-42249-13C		
14	22-43-6140	A-42249-14A		14		A-42249-14B		14	22-44-7145	A-42249-14C		
15	22-43-6150	A-42249-15A		15		A-42249-15B		15	22-44-7155	A-42249-15C		
	22-43-6041	A-42249-4A-2	2									
	22-43-6042	A-42249-4A-3	3									
	22-43-6063	A-42249-6A-51	3,5									
	22-43-6064	A-42249-6A-52	2,4									
	22-43-6032	A-42249-3A-3	3									
	022-43-6073	A-42249-07A-51	2,5									
	022-43-6072	A-42249-07A-3	3									
	022-43-6074	A-42249-07A-5	5									
	022-43-6075	A-42249-07A-52	3,6									
	022-43-6061	A-42249-06A-5	5									
	022-43-6065	A-42249-06A-2	2									
REV:	ECR/ECN INFORMATION			TITLE:							SHEET No.	
S	EC NO: UCP2006-0509			2.5 MM HEADER ASSEMBLY (STAGGERED PINS)							- 2 -	
	DATE: 3/29/2006											
DOCUMENT NUMBER:				CREATED / REVISED BY:			CHECKED BY:		APPROVED BY:			
SDA-42249-*				ELHAG			ADERR		FSMITH			
TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\{V.1}.DOC												

A-42249-ND-*				A-42249-NE-*				A-42249-NF-*			
OPTIONS	HOUSING	42249-NR		OPTIONS	HOUSING	42249-NC		OPTIONS	HOUSING	42249-ND	
	COLOR	RED			COLOR	ORANGE			COLOR	YELLOW	
	PIN NO	45613-0001			PIN NO	45613-0001			PIN NO	45613-0001	
	PLATING	154			PLATING	154			PLATING	154	
Ckt	Material No	Engineering No	Void Ckts	Ckt	Material No	Engineering No	Void Ckts	Ckt	Material No	Engineering No	Void Ckts
2	22-44-7022	A-42249-2D		2	22-44-7024	A-42249-2E		2	22-44-7021	A-42249-2F	
3	22-44-7032	A-42249-3D		3	22-44-7034	A-42249-3E		3	22-44-7031	A-42249-3F	
4	22-44-7042	A-42249-4D		4	22-44-7044	A-42249-4E		4	22-44-7041	A-42249-4F	
5	22-44-7052	A-42249-5D		5	22-44-7054	A-42249-5E		5	22-44-7051	A-42249-5F	
6	22-44-7062	A-42249-6D		6	22-44-7064	A-42249-6E		6	22-44-7061	A-42249-6F	
7	22-44-7072	A-42249-7D		7	22-44-7074	A-42249-7E		7	22-44-7071	A-42249-7F	
8	22-44-7082	A-42249-8D		8	22-44-7084	A-42249-8E		8	22-44-7081	A-42249-8F	
9	22-44-7092	A-42249-9D		9	22-44-7094	A-42249-9E		9	22-44-7091	A-42249-9F	
10	22-44-7102	A-42249-10D		10	22-44-7104	A-42249-10E		10	22-44-7101	A-42249-10F	
11		A-42249-11D		11	22-44-7114	A-42249-11E		11	22-44-7111	A-42249-11F	
12	22-44-7122	A-42249-12D		12	22-44-7124	A-42249-12E		12	22-44-7121	A-42249-12F	
13		A-42249-13D		13	22-44-7134	A-42249-13E		13	22-44-7131	A-42249-13F	
14		A-42249-14D		14	22-44-7144	A-42249-14E		14	22-44-7141	A-42249-14F	
15		A-42249-15D		15	22-44-7154	A-42249-15E		15	22-44-7151	A-42249-15F	
	22-44-7049	A-42249-4D-2	2								
	022-44-7048	A-42249-04D-3	3								
REV:	ECR/ECN INFORMATION		<u>TITLE:</u>								<u>SHEET No.</u>
S	EC NO: UCP2006-0509		2.5 MM HEADER ASSEMBLY (STAGGERED PINS)								- 3 -
	DATE: 3/29/2006										
<u>DOCUMENT NUMBER:</u>			<u>CREATED / REVISED BY:</u>				<u>CHECKED BY:</u>		<u>APPROVED BY:</u>		
SDA-42249-*			ELHAG				ADERR		FSMITH		
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC											

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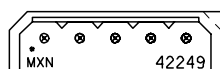
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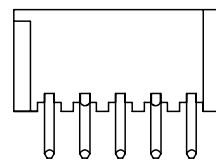
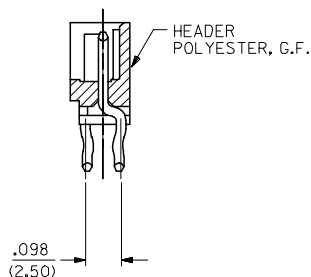
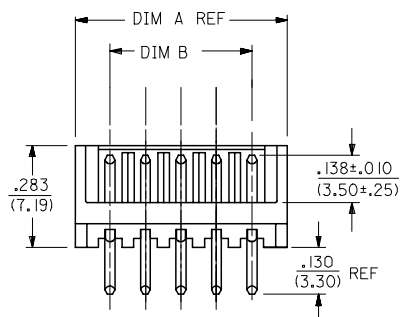
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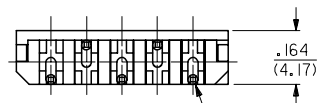


SQUARE CORNER IS CKT I
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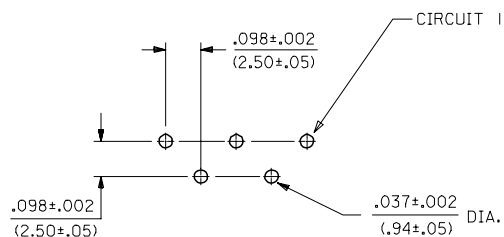


NOTES:

- 1) MATERIAL: HEADER : PLOYESTER, GLASS FILLED.
PIN : BRASS.
- 2) FINISH:
(154) --100 MICROINCHES (2.54 MICROMETERS) MIN. TIN OVER
50 MICROINCHES (1.27 MICROMETERS) MIN. NICKEL UNDERPLATE.
- 3) PRODUCT SPECS: PS-42219-0001.
- 4) PACKAGING: PARTS MUST BE PACKAGED IN A 9" X12" ANTI-STATIC
POLY-BAG BEFORE PLACING IN CORRUGATED SHIPPING CARTON.
- 5) ANY VOID COMBINATION LEAVING PINS IN ONE ROW ONLY IS NOT AN AVAILABLE
OPTION. THE RESULTS WOULD BE MINIMAL BOARD RETENTION.



CIRCUIT I



PCB HOLE LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062 (1.57)

NO. OF CKTS.	KINK LOC.	DIM A IN/(MM)	DIM B IN/(MM)
2	ALL PINS	.292/(7.42)	.098/(2.50)
3	ALL PINS	.391/(9.92)	.197/(5.00)
4	ALL PINS	.489/(12.42)	.295/(7.50)
5	ALL PINS	.587/(14.92)	.394/(10.00)
6	ALL PINS	.685/(17.40)	.492/(12.50)
7	ALL PINS	.783/(19.90)	.591/(15.00)
8	ALL PINS	.882/(22.40)	.689/(17.50)
9	ALL PINS	.980/(24.90)	.787/(20.00)
10	ALL PINS	1.079/(27.40)	.886/(22.50)
11	ALL PINS	1.177/(29.90)	.984/(25.00)
12	ALL PINS	1.276/(32.40)	1.083/(27.50)
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14	ALL PINS	1.472/(37.40)	1.280/(32.50)
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A-42249-N*-*-*

COLOR OPTION NO. OF CKTS. PART
BLANK = STANDARD
SP = SPECIAL
VOID LOCATION

REPLACE PIN 42238 EC NO: UCP2006-0509 2006/03/08 DRAWN: AELHAG CHKD: 2006/03/28 APPR: FSI TH 2006/03/29 REV: DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		mm	INCH	DRAWN BY RE	DATE 12/17/88	TITLE 2.5 MM HEADER ASSEMBLY (STAGGERED PINS)		
		4 PLACES ± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED		
		3 PLACES ± ---	± .010	WRL	12/17/88			
		2 PLACES ± 0.25	± .015	APPROVED BY	DATE	DOCUMENT NO. SDA-42249-*		
		1 PLACE ± 0.38	± ---	LENZ	12/17/88			
		ANGULAR ±1/2°		MATERIAL NO.		SHEET NO. 1 OF 4		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART				
		SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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A-42249-NA-*				A-422649-NB-*				A-42249-NC-*			
OPTIONS	HOUSING	42249-N		OPTIONS	HOUSING	42249-NA		OPTIONS	HOUSING	42249-NB	
	COLOR	WHITE			COLOR	BLUE			COLOR	BROWN	
	PIN NO	45613-0001			PIN NO	45613-0001			PIN NO	45613-0001	
	PLATING	154			PLATING	154			PLATING	154	
Ckt	Material No	Engineering No	Void Ckts	Ckt	Material No	Engineering No	Void Ckts	Ckt	Material No	Engineering No	Void Ckts
2	22-43-6020	A-42249-2A		2	22-44-7026	A-42249-2B		2	22-44-7025	A-42249-2C	
3	22-43-6030	A-42249-3A		3	22-44-7036	A-42249-3B		3	22-44-7035	A-42249-3C	
4	22-43-6040	A-42249-4A		4	22-44-7046	A-42249-4B		4	22-44-7045	A-42249-4C	
5	22-43-6050	A-42249-5A		5	22-44-7056	A-42249-5B		5	22-44-7055	A-42249-5C	
6	22-43-6060	A-42249-6A		6		A-42249-6B		6	22-44-7065	A-42249-6C	
7	22-43-6070	A-42249-7A		7		A-42249-7B		7	22-44-7075	A-42249-7C	
8	22-43-6080	A-42249-8A		8		A-42249-8B		8	22-44-7085	A-42249-8C	
9	22-43-6090	A-42249-9A		9		A-42249-9B		9	22-44-7095	A-42249-9C	
10	22-43-6100	A-42264910A		10		A-42264910B		10	22-44-7105	A-42249-10C	
11	22-43-6110	A-42249-11A		11		A-42249-11B		11	22-44-7115	A-42249-11C	
12	22-43-6120	A-42249-12A		12		A-42249-12B		12	22-44-7125	A-42249-12C	
13	22-43-6130	A-42249-13A		13		A-42249-13B		13	22-44-7135	A-42249-13C	
14	22-43-6140	A-42249-14A		14		A-42249-14B		14	22-44-7145	A-42249-14C	
15	22-43-6150	A-42249-15A		15		A-42249-15B		15	22-44-7155	A-42249-15C	
	22-43-6041	A-42249-4A-2	2								
	22-43-6042	A-42249-4A-3	3								
	22-43-6063	A-42249-6A-51	3,5								
	22-43-6064	A-42249-6A-52	2,4								
	22-43-6032	A-42249-3A-3	3								
	022-43-6073	A-42249-07A-51	2,5								
	022-43-6072	A-42249-07A-3	3								
	022-43-6074	A-42249-07A-5	5								
	022-43-6075	A-42249-07A-52	3,6								
	022-43-6061	A-42249-06A-5	5								
	022-43-6065	A-42249-06A-2	2								

REV:	ECR/ECN INFORMATION		TITLE:	2.5 MM HEADER ASSEMBLY			SHEET No.
S	EC NO: UCP2006-0509		(STAGGERED PINS)			- 2 -	
	DATE: 3/29/2006						
DOCUMENT NUMBER:			CREATED / REVISED BY:		CHECKED BY:	APPROVED BY:	
SDA-42249-*			ELHAG		ADERR	FSMITH	

TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\{V.1}.DOC

A-42249-ND-*											
OPTIONS	HOUSING	42249-NR									
	COLOR	RED									
	PIN NO	45613-0001									
	PLATING	154									
Ckt	Material No	Engineering No	Void Ckts								
2	22-44-7022	A-42249-2D									
3	22-44-7032	A-42249-3D									
4	22-44-7042	A-42249-4D									
5	22-44-7052	A-42249-5D									
6	22-44-7062	A-42249-6D									
7	22-44-7072	A-42249-7D									
8	22-44-7082	A-42249-8D									
9	22-44-7092	A-42249-9D									
10	22-44-7102	A-42249-10D									
11		A-42249-11D									
12	22-44-7122	A-42249-12D									
13		A-42249-13D									
14		A-42249-14D									
15		A-42249-15D									
	22-44-7049	A-42249-4D-2	2								
	022-44-7048	A-42249-04D-3	3								

A-42249-NE-*			
OPTIONS	HOUSING	42249-NC	
	COLOR	ORANGE	
	PIN NO	45613-0001	
	PLATING	154	
Ckt	Material No	Engineering No	Void Ckts
2	22-44-7024	A-42249-2E	
3	22-44-7034	A-42249-3E	
4	22-44-7044	A-42249-4E	
5	22-44-7054	A-42249-5E	
6	22-44-7064	A-42249-6E	
7	22-44-7074	A-42249-7E	
8	22-44-7084	A-42249-8E	
9	22-44-7094	A-42249-9E	
10	22-44-7104	A-42249-10E	
11		A-42249-11E	
12	22-44-7124	A-42249-12E	
13		A-42249-13E	
14		A-42249-14E	
15		A-42249-15E	

A-42249-NF-*			
OPTIONS	HOUSING	42249-ND	
	COLOR	YELLOW	
	PIN NO	45613-0001	
	PLATING	154	
Ckt	Material No	Engineering No	Void Ckts
2	22-44-7021	A-42249-2F	
3	22-44-7031	A-42249-3F	
4	22-44-7041	A-42249-4F	
5	22-44-7051	A-42249-5F	
6	22-44-7061	A-42249-6F	
7	22-44-7071	A-42249-7F	
8	22-44-7081	A-42249-8F	
9	22-44-7091	A-42249-9F	
10	22-44-7101	A-42249-10F	
11		A-42249-11F	
12	22-44-7121	A-42249-12F	
13		A-42249-13F	
14		A-42249-14F	
15		A-42249-15F	

REV:	ECR/ECN INFORMATION	TITLE:	SHEET No.
S	EC NO: UCP2006-0509	2.5 MM HEADER ASSEMBLY (STAGGERED PINS)	- 3 -
	DATE: 3/29/2006		
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:
SDA-42249-*		ELHAG	ADERR
		APPROVED BY:	
		FSMITH	

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