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Part Number: [0015249045](#)
Status: **Active**
Description: 4.20mm (.165") Pitch Mini-Fit BMI™ Header, Dual Row, Right Angle, with Snap-in Plastic Peg PCB Lock, 4 Circuits, PA Polyamide Nylon 6/6, UL 94V-0, with Overall Gold (Au) Plating

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-5556-002 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

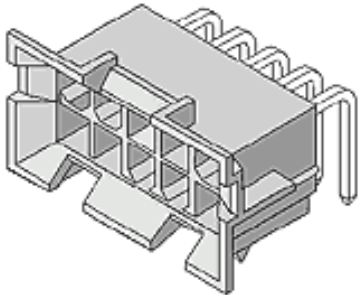
General

Product Family PCB Headers
Series [42404](#)
Application Board-to-Board, Wire-to-Board
Comments Current = 13A max. per circuit when header is mated to a receptacle loaded with [45750](#) Mini-Fit Plus HCS™ Crimp Terminal Crimped to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.

Product Name Mini-Fit BMI™

Physical

Breakaway No
Circuits (Loaded) 4
Circuits (maximum) 4
Color - Resin Natural (White)
Durability (mating cycles max) 30
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part Yes
Lock to Mating Part Yes
Material - Metal Brass
Material - Plating Mating Gold
Material - Plating Termination Gold
Material - Resin Nylon
Number of Rows 2
Orientation Right Angle
PC Tail Length (in) 0.130 In
PC Tail Length (mm) 3.30 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.070 In
PCB Thickness Recommended (mm) 1.80 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.165 In
Pitch - Mating Interface (mm) 4.20 mm
Plating min: Mating (µin) 30.4
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 30.4
Plating min: Termination (µm) 0.76
Polarized to Mating Part Yes
Polarized to PCB Yes



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
[42404Series](#)

Mates With
[15-06-0041](#) Mini-Fit BMI™ Panel Mount Receptacle, [39-01-3048](#) Mini-Fit Jr.™ Receptacle, [15-24-7043](#) Mini-Fit BMI™ Vertical Receptacle Header

Shrouded	Partial
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	13A
Voltage - Maximum	600V

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	240

Material Info

Old Part Number	A-42404-04B2
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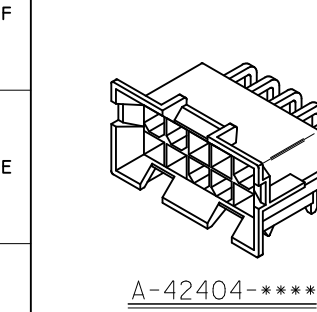
Reference - Drawing Numbers

Packaging Specification	PK-42404-002
Product Specification	PS-5556-002
Sales Drawing	SDA-42404-****
Test Summary	TS-5556-002

This document was generated on 05/11/2010

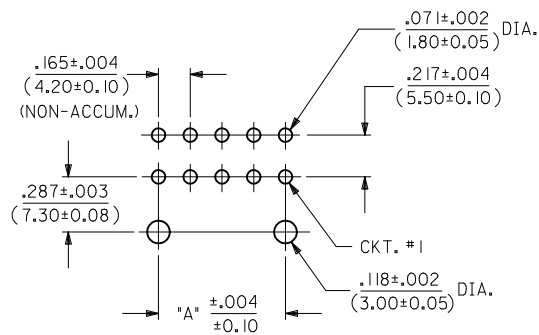
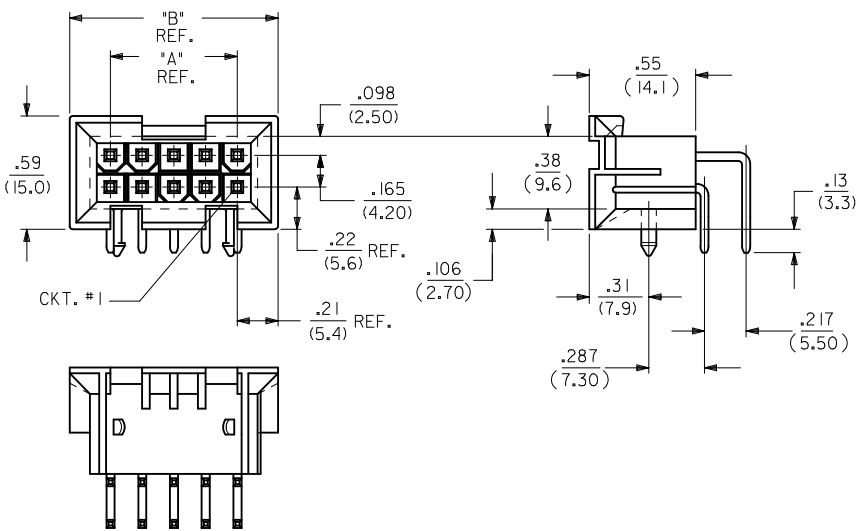
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	CIRCUIT SIZE	DIM. "A"	DIM. "B"
J	6	.331 (8.40)	.76 (19.2)
	8	.496 (12.60)	.92 (23.4)
I	10	.661 (16.80)	1.09 (27.6)
	12	.827 (21.00)	1.25 (31.8)
	14	.992 (25.20)	1.42 (36.0)
H	16	1.157 (29.40)	1.58 (40.2)
	18	1.323 (33.60)	1.75 (44.4)
	20	1.488 (37.80)	1.91 (48.6)
G	22	1.654 (42.00)	2.08 (52.8)
	24	1.819 (46.20)	2.24 (57.0)



A-42404-****

C	--B2, --B4	42474--*2I, 5556-PBGS*P	94V-0	PHOS. BRZ.	GOLD			
	--A2, --A4	42474--*1I, 5556-PBGS*P	94V-2					
	--B1, --B3	42474--*2I, 5556-PBS*P	94V-0					
	--A1, --A3	42474--*1I, 5556-PBS*P	94V-2		TIN			
	--B2, --B4	42474--*2I, 5556-GS*P	94V-0					
	--A2, --A4	42474--*1I, 5556-GS*P	94V-2					
B	--B1, --B3	42474--*2I, 5556-S*P	94V-0	BRASS	GOLD			
	--A1, --A3	42474--*1I, 5556-S*P	94V-2					
	--B2, --B4	A-42385--*D2	94V-0					
	--A2, --A4	A-42385--*C2	94V-2		TIN			
	--B1, --B3	A-42385--*D1	94V-0					
	--A1, --A3	A-42385--*C1	94V-2					
A	--B2, --B4	A-42385--*B2	94V-0	PHOS. BRZ.	GOLD			
	--A2, --A4	A-42385--*A2	94V-2					
	--B1, --B3	A-42385--*B1	94V-0					
	--A1, --A3	A-42385--*A1	94V-2		TIN			
	R.A. HEADER		MATING CONNECTOR			HSG. MAT'L.	TERM. MAT'L.	PLATING
	A-42404					MATING CONNECTOR FEATURES		



RECOMMENDED HOLE LAYOUT FOR .070/(1.78) MAX. THICK P.C. BOARD VIEWED FROM COMPONENT SIDE

LEGEND:

A-42404-****

BASE NUMBER: _____

CKT. SIZE: (02-24) _____

HOUSING MAT'L: (SEE NOTE 1) _____

TERMINAL PLATING: (SEE NOTE 2) _____

NOTES:

- MATERIAL: HOUSING: "A" = NYLON 6/6, U.L. 94V-2, COLOR: NATURAL. "B" = NYLON 6/6, U.L. 94V-0, COLOR: NATURAL. TERMINAL: BRASS ALLOY 260.
- TERMINAL PLATING:
1 = .000100/(.00254) MIN. BRIGHT TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
2 = .000030/(.00076) MIN. GOLD OVER .000050/(.00127) MIN. NICKEL OVERALL.
*3 = .000100/(.00254) MIN. MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
5 = .000030/(.00076) MIN. GOLD AND .000100/(.00254) MIN. MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC." CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
- PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: SEE PS-5556-002
- PACKAGING SPECIFICATION: PK-42404-002.
- 4-24 CKT. PARTS MATE WITH MINI-FIT JR. RECEPTACLES *5557, *42385 AND *42474. 2 CKT. PART MATES WITH *42385 AND *42474 ONLY.
- PART ALLOWS FOR UP TO .100/(2.54) MISALIGNMENT WITH MATING RECEPTACLE IN ANY DIRECTION. SEE MATING CONNECTOR DRAWINGS FOR SPECIFIC ALLOWANCES.
- CONNECTOR ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
- A MAXIMUM TOLERANCE OF .050/(1.27) ALLOWS FOR 2 POINTS OF ELECTRICAL CONTACT. A MAXIMUM TOLERANCE OF .020/(.51) ALLOWS FOR 4 POINTS OF CONTACT.
- DISCOLORATION IN THE BANDOLIER CARRIER AREA OF THE PIN IS INHERENT TO THE PLATING PROCESS AND IS DUE TO THE MASKING EFFECT OF THE CARRIER. THIS DISCOLORATION IS IN A NON-FUNCTIONAL AREA OF THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE HEADER ASSEMBLY.
- PART IS NOT DESIGNED FOR CURRENT SHARING.
- PART IS NOT INTENDED TO PROVIDE ANY ALIGNMENT OF CUSTOMER COMPONENTS OR MODULES, SUCH AS POWER SUPPLIES AND CHASSIS.
- PARTS CONFORM TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.*

REVISE NOTES
EC NO: UCP2010-0864
DRWN: JAGUILAR 2010/01/18
CHKD: JEBEL 2010/01/06
APPR: FSMITH 2010/03/16
REV R2

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± .010
2 PLACES ± .025 ± .015
1 PLACE ± 0.38 ± ---
ANGULAR ± 1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
IN/MM

DRAWN BY DATE
RWK 2/7/89

CHECKED BY DATE
RJF 2/7/89

APPROVED BY DATE
FSMITH 2010/03/16

MATERIAL NO.
SEE SHTS 3&4

DOCUMENT NO.
SDA-42404-****

SHEET NO.
1 OF 4

SCALE
1:1

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

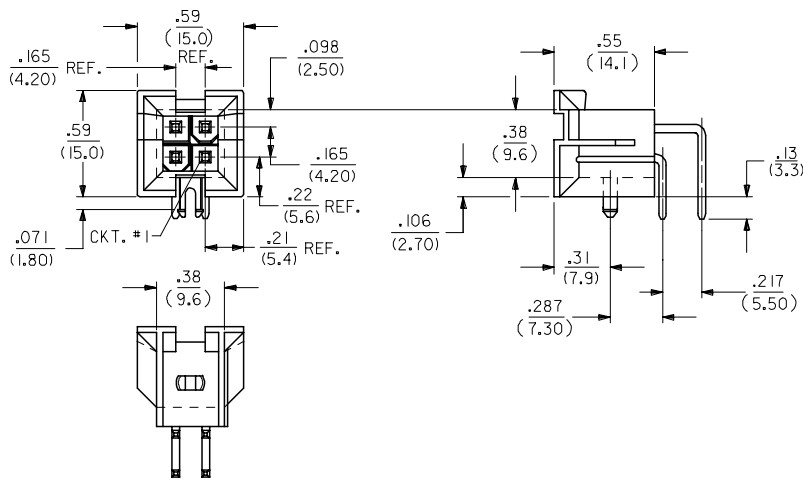
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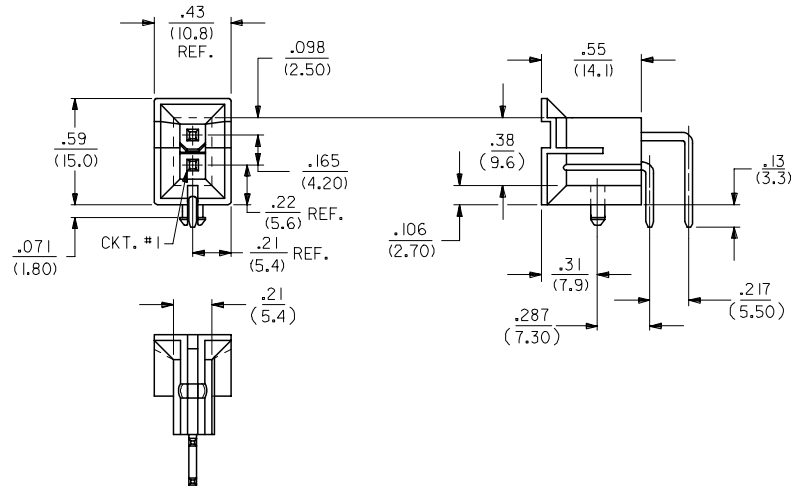
13 12 11 10 9 8 7 6 5 4 3 2 1

J
I
H
G
F
E
D
C
B
A

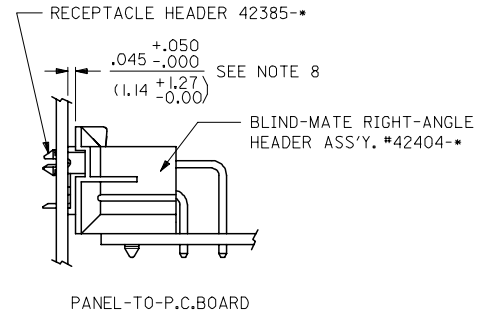
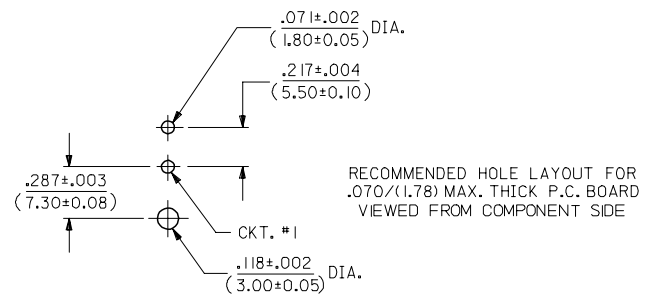
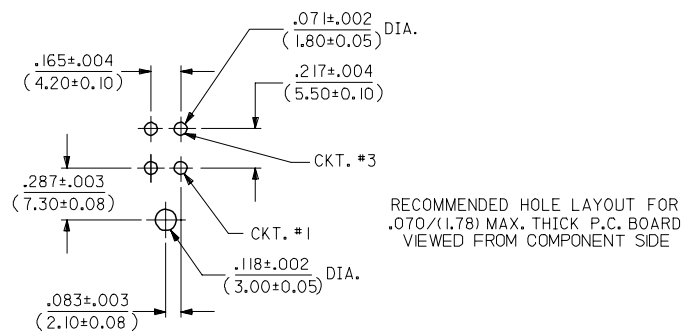
J
I
H
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A-42404-04**



A-42404-02**



SEE SHEET 1 EC NO: UCP2006-1780 DRW:ADRA1NOL 2006/02/03 CHKD:GPOLGAR 2006/02/03 APPR:ICOMERCJ 2006/02/06 REV	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			mm		INCH		DRAWN BY DATE		TITLE MINI-FIT JR. 2-24 CKT RIGHT ANGLE HEADER ASSY (BLIND MATE) MOLEX MOLEX INCORPORATED	
			4 PLACES ± --- ± ---		RWK 1989/02/07					
			3 PLACES ± --- ± .01		CHECKED BY DATE					
			2 PLACES ± 0.25 ± .015		RJF 1989/02/07					
			1 PLACE ± 0.38 ± ---		APPROVED BY DATE					
			ANGULAR ±1/2°		RAS 1989/02/07					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
					SEE SHTS 3&4		SDA-42404-****	2 OF 4		
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
		SIZE C								

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