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Part Number: [0015249145](#)
Status: **Active**
Description: 4.20mm (.165") Pitch Mini-Fit BMI™ Header, Dual Row, Right Angle, with Snap-in Plastic Peg PCB Lock, 14 Circuits, PA Polyamide Nylon 6/6, UL 94V-0, with Overall Gold (Au) Plating

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

Agency Certification

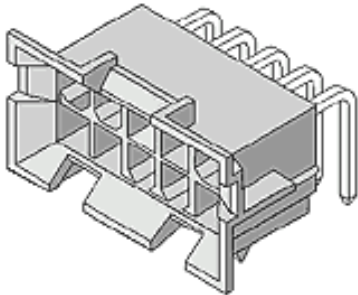
CSA	LR19980
UL	E29179

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 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)	14
Circuits (maximum)	14
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

Halogen-Free

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
[15-06-0141](#) Mini-Fit BMI™ Panel Mount Receptacle, [39-01-2145](#) Mini-Fit Jr.™ Receptacle, [15-24-7143](#) 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-42404-14B2
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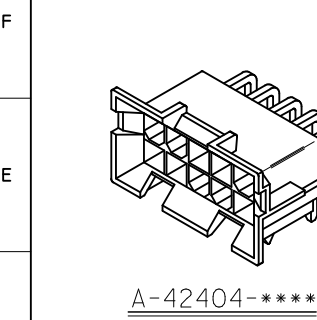
Reference - Drawing Numbers

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

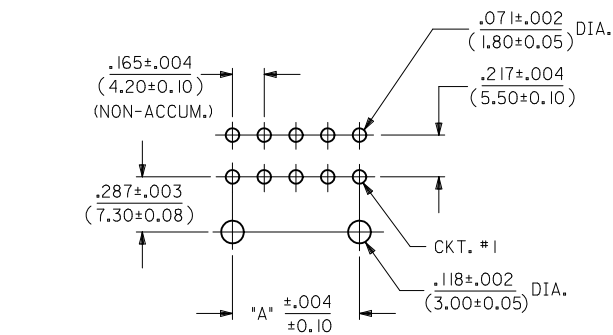
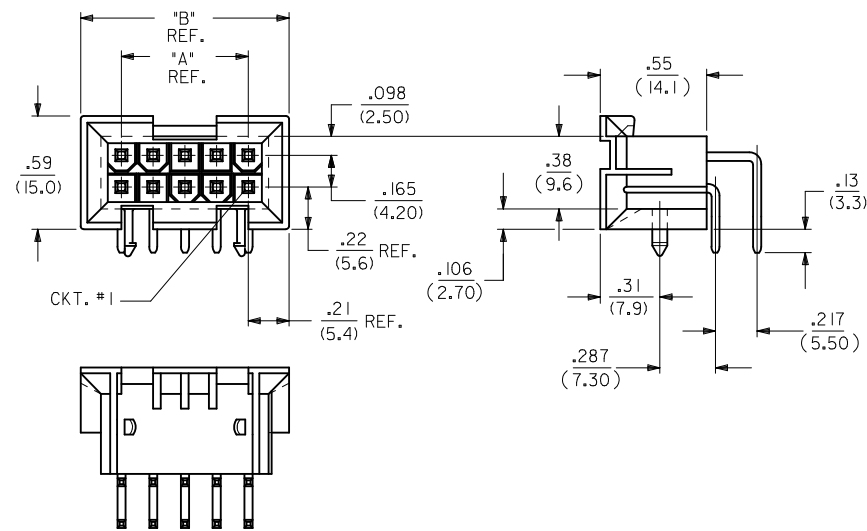
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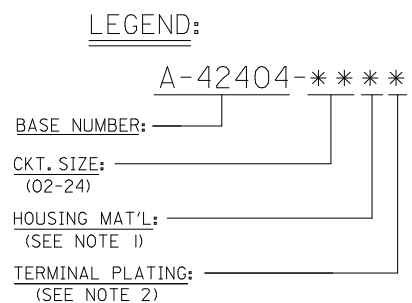
	CIRCUIT SIZE	DIM. "A"	DIM. "B"
J	6	.331 (8.40)	.76 (19.2)
	8	.496 (12.60)	.92 (23.4)
I	10	.661 (16.80)	1.09 (27.6)
	12	.827 (21.00)	1.25 (31.8)
	14	.992 (25.20)	1.42 (36.0)
H	16	1.157 (29.40)	1.58 (40.2)
	18	1.323 (33.60)	1.75 (44.4)
	20	1.488 (37.80)	1.91 (48.6)
G	22	1.654 (42.00)	2.08 (52.8)
	24	1.819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



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



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



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 ± .038 ± ---
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.
DOCUMENT NO.
SHEET NO.
1 OF 4

THIRD ANGLE PROJECTION

MOLEX MOLEX INCORPORATED
SDA-42404-****

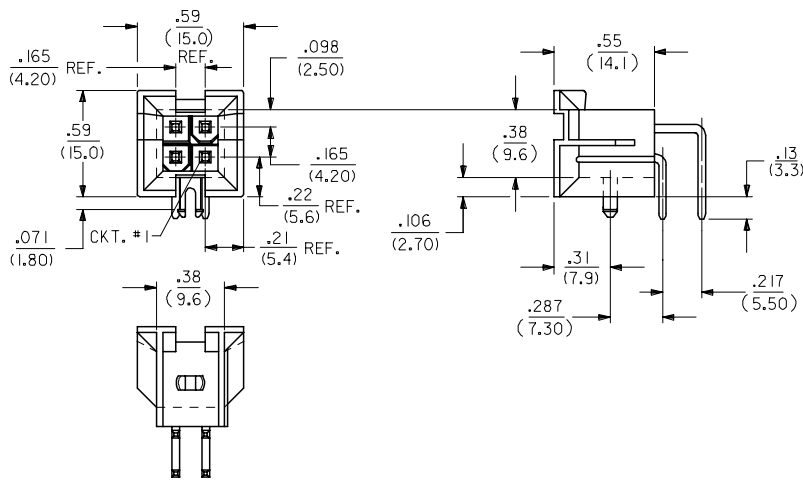
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4	R
3	R2
2	R
1	R2
SHT1 REV.	

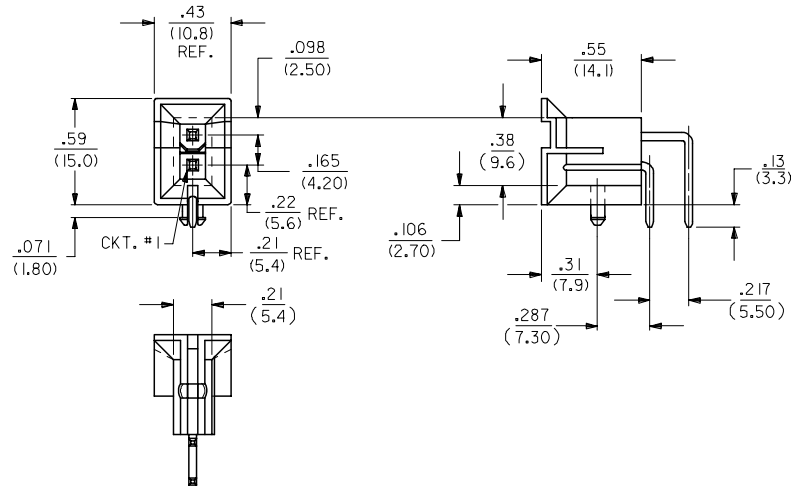
13 12 11 10 9 8 7 6 5 4 3 2 1

J
I
H
G
F
E
D
C
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A

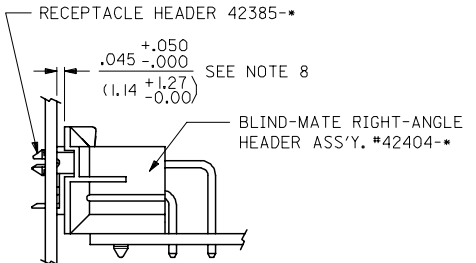
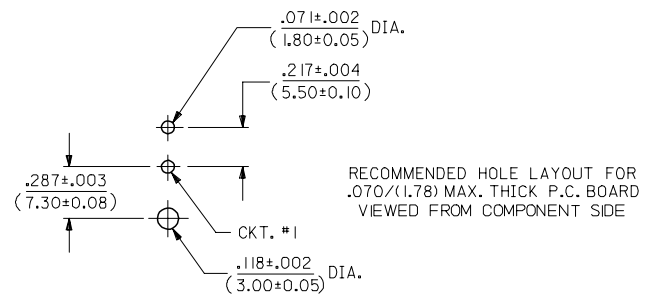
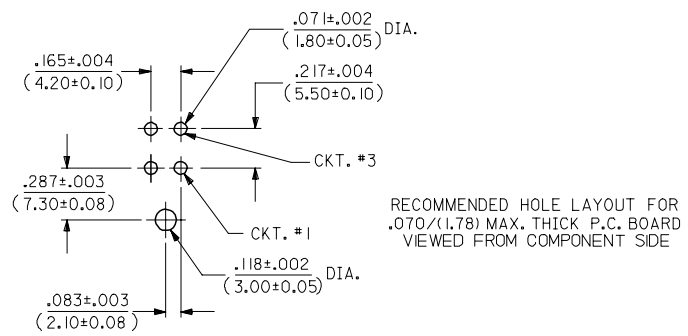
J
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A-42404-04**



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	MINI-FIT JR. 2-24 CKT RIGHT ANGLE HEADER ASSY (BLIND MATE)	
				mm	INCH	DRAWN BY RWK	DATE 1989/02/07	TITLE MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	CHECKED BY RJF	DATE 1989/02/07					
			3 PLACES	± ---	± .01							
			2 PLACES	± 0.25	± .015							
			1 PLACE	± 0.38	± ---	APPROVED BY RAS	DATE 1989/02/07					
			ANGULAR ±1/2°			MATERIAL NO. RAS		DOCUMENT NO. SDA-42404-****				SHEET NO. 2 OF 4
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE SHTS 3&4						
						SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

[illegible]