

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

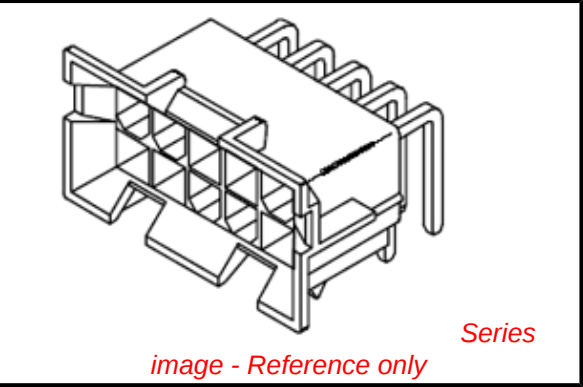
0436440002

Status:

Active

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ BMI Header, Dual Row, Right Angle, 4 Circuits, PA Polyamide Nylon 6/6 94V-0, with Tin (Sn) Plating



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

General	
Product Family	PCB Headers
Series	43644
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-5556-002 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
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.155 In
PC Tail Length (mm)	3.94 mm
PCB Locator	Yes
PCB Retention	None
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.40 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm
Plating min: Mating (µin)	100
Plating min: Mating (µm)	2.54
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.54
Polarized to PCB	Yes
Shrouded	Partial
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

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

43644Series

Mates With

44516 Slide-and-Lock Receptacle, 42474 Receptacle Housing, 44475 Mini-Fit HCS™ Receptacle Header, 5557d Receptacle Housing, 42385 Receptacle Header

Electrical

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

Material Info

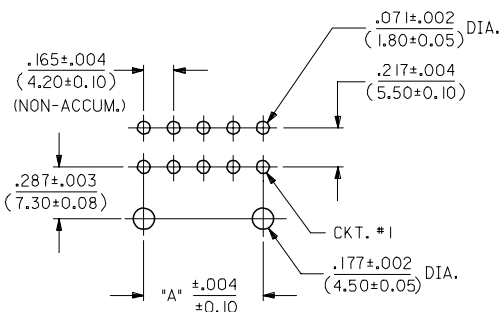
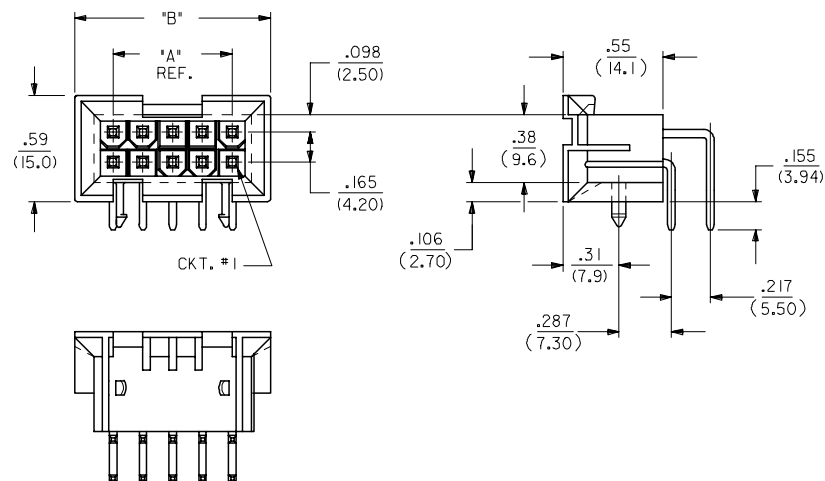
Reference - Drawing Numbers

Packaging Specification	PK-42404-002
Product Specification	PS-5556-002
Sales Drawing	SD-43644-002
Test Summary	TS-5556-002

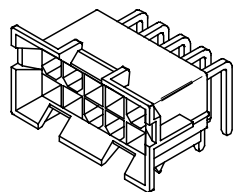
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CIRCUIT SIZE	DIM. 'A'	DIM. 'B'
6	.331 (8.40)	.76 (19.2)
8	.496 (12.60)	.92 (23.4)
10	.661 (16.80)	1.09 (27.6)
12	.827 (21.00)	1.25 (31.8)
14	.992 (25.20)	1.42 (36.0)
16	1.157 (29.40)	1.58 (40.2)
18	1.323 (33.60)	1.75 (44.4)
20	1.488 (37.80)	1.91 (48.6)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



RECOMMENDED HOLE LAYOUT FOR
.101/(2.56) MAX. THICK P.C. BOARD
(VIEWED FROM COMPONENT SIDE)



43644 ****

NOTES:

- HOUSING MATERIAL:
1 = NYLON 6/6, U.L. 94V-0, COLOR: NATURAL.
- TERMINAL MATERIAL: BRASS, ALLOY 260.
- 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.
- 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.
- TERMINAL PLATING:
1 = .000100/(.00254) MIN. BRIGHT TIN OVER
.000050/(.00127) MIN. NICKEL OVERALL.
2 = .000030/(.00076) MIN. SELECT GOLD
.000100/(.00254) MIN. SELECT MATTE TIN OVER
.000050/(.00127) MIN. NICKEL OVERALL.
- PRODUCT SPECIFICATION: PS-5556-002
- CONNECTOR ASSEMBLIES ARE NOT TO BE MATED
OR UNMATED WHILE CIRCUITS ARE LIVE.
- THIS HOLE PATTERN DOES NOT PROVIDE FOR LOCKING
THE HOUSING TO THE P.C. BOARD
- ITEM NUMBERS PRECEDED BY AN 'X' ARE NOT TOOLED.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.

3	2
2	2
1	2

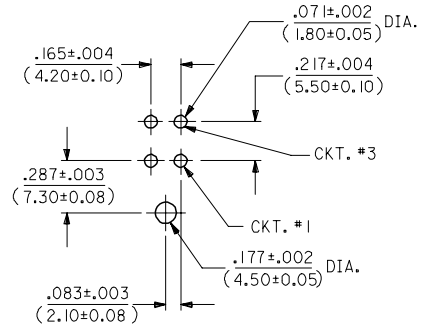
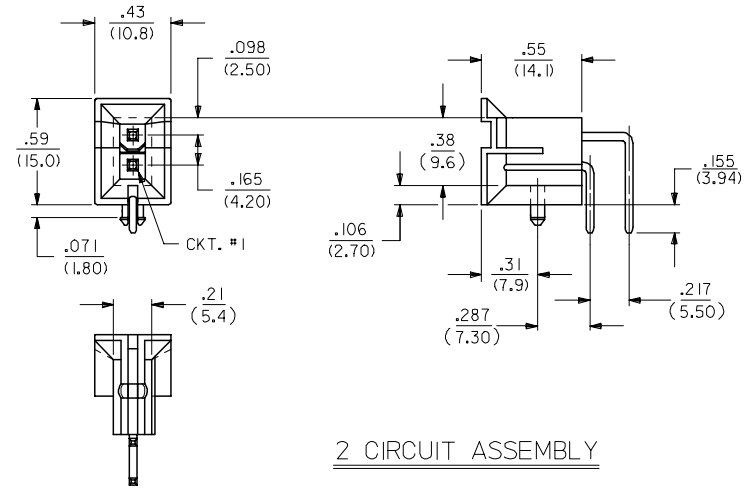
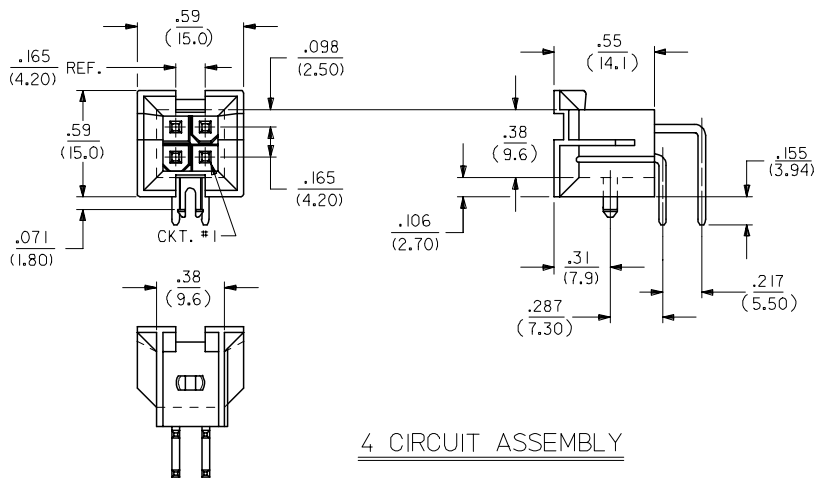
SHT. REV.

ADD NOTE 11		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: UCP2007-2082		DATE		mm		IN/MM		2:1		METRIC		THIRD ANGLE PROJECTION	
DRAWINGSTEWART		2007/02/22		4 PLACES ± ---		± ---		DRAWN BY		DATE		TITLE	
CHKD: GPOLGAR		2007/02/22		3 PLACES ± ---		± .010		ADRNATNOL		2005/12/05		MINI-FIT JR BMI RIGHT	
APPR: APATEL		2007/02/22		2 PLACES ± 0.25		± .015		CHECKED BY		DATE		ANGLE HDR ASSY	
				1 PLACE ± 0.38		± ---		GPOLGAR		2005/12/05		FOR .094/(2.40) PCB	
						ANGULAR ± 1/2°		APPROVED BY		DATE		MOLEX INCORPORATED	
								JCOMERC I		2005/12/05		SD-43644-002	
								MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
								SEE SHEET 3				1 OF 3	
								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX					
								INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

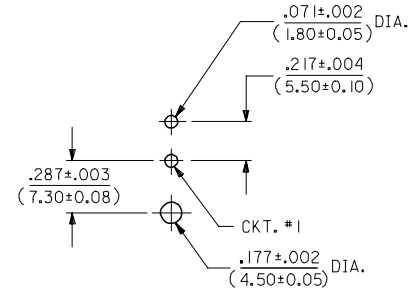
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.101/(2.56) MAX. THICK P.C. BOARD
(VIEWED FROM COMPONENT SIDE)



RECOMMENDED HOLE LAYOUT FOR
.101/(2.56) MAX. THICK P.C. BOARD
(VIEWED FROM COMPONENT SIDE)

SEE SHEET ONE EC NO: UCP2007-2082 DRAWN: STEWART 2007/02/22 CHKD: GPOLGAR 2007/02/22 APPR: APATEL 2007/02/22 REV: 2	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 ADRNOL	DATE 2005/12/05	TITLE MINI-FIT JR BMI RIGHT ANGLE HDR ASSY FOR .094/(2.40) PCB	SHEET NO. 2 OF 3		
			4 PLACES ± ---	± ---	CHECKED BY GPOLGAR	DATE 2005/12/05				
			3 PLACES ± ---	± .010	APPROVED BY JCOMERC I	DATE 2005/12/05	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-43644-002		
			2 PLACES ± 0.25	± .015						
			1 PLACE ± 0.38	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
			ANGULAR ±1/2°		SEE SHEET 3					
			MATERIAL NO.		INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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

