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Part Number:

0440680273

Status:

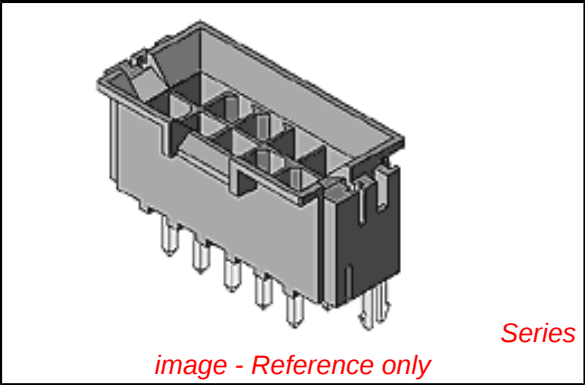
Active

Description:

4.20mm (.165") Pitch Mini-Fit BMI™ Surface Mount Compatible Header, Dual Row, Vertical, 18 Circuits, 6.35mm (.250") PCB Thickness, with Snap-In Metal Pins, PA Polyamide Nylon 4/6, UL 94V-0, with Tin (Sn) Over Nickel (Ni) Plating

Documents:	
3D Model	Product Specification PS-43810-001 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR19980
UL	E29179
General	
Product Family	PCB Headers
Series	44068
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)	18
Circuits (maximum)	18
Color - Resin	Black
Durability (mating cycles max)	30
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	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.335 In
PC Tail Length (mm)	8.50 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.250 In
PCB Thickness Recommended (mm)	6.30 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 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



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

44068Series

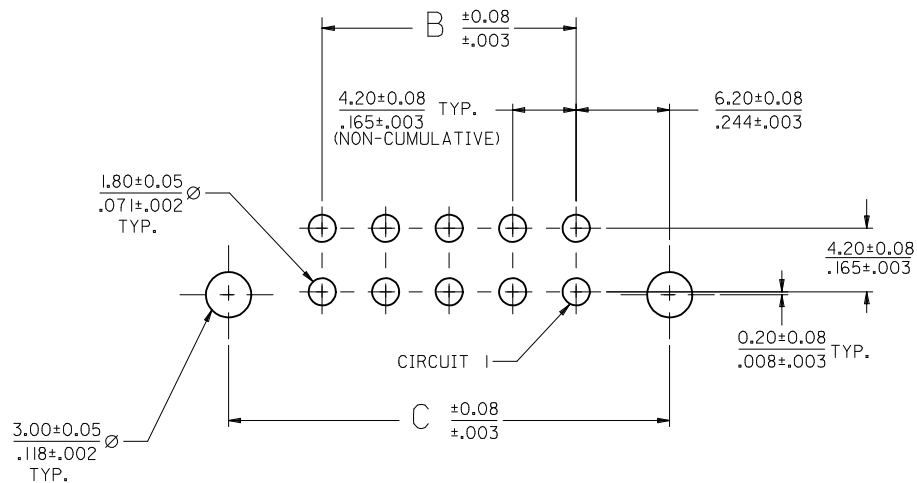
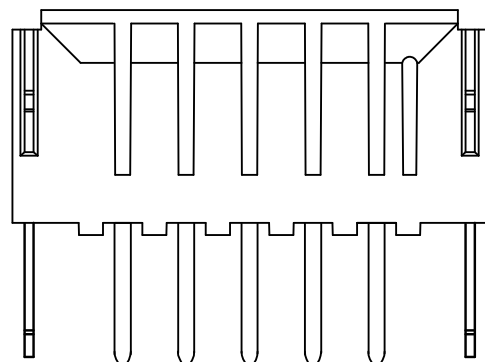
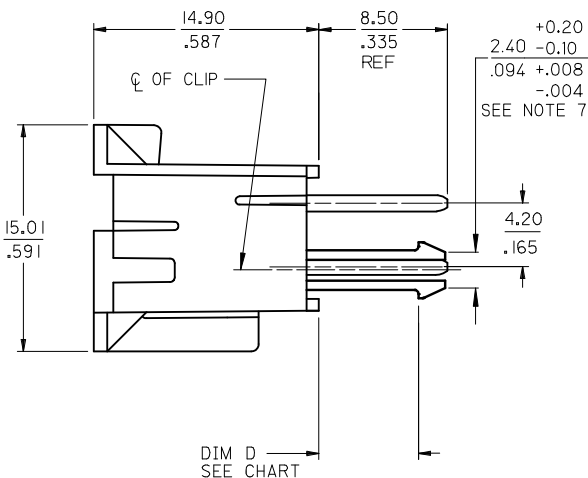
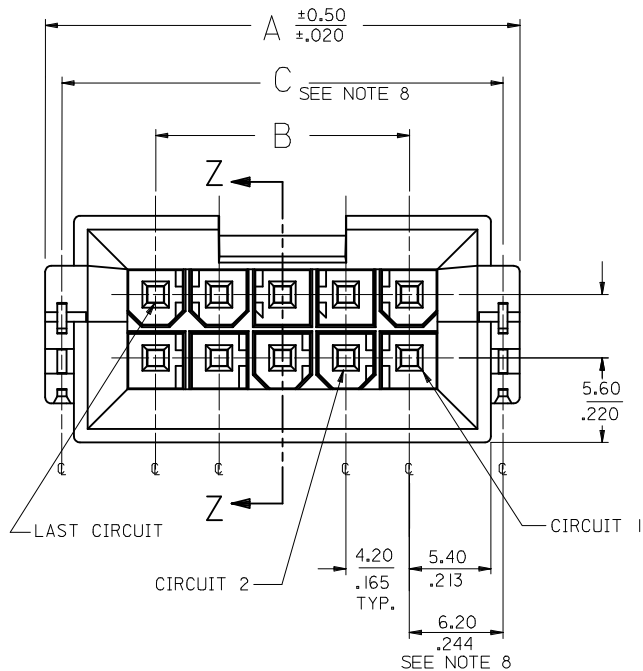
Mates With

15-06-0181 Mini-Fit BMI™ Panel Mount Receptacle, 39-01-2185 Mini-Fit Jr.™ Receptacle, 15-24-7181 Mini-Fit BMI™ Receptacle Header, 44516-0009 Mini-Fit BMI™ Slide and Lock Panel Mount Receptacle

Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes
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	
Lead-free Process Capability	SMC & Wave Capable (TH only)
Process Temperature max. C	235
Material Info	
Reference - Drawing Numbers	
Packaging Specification	PK-43879-002
Product Specification	PS-43810-001
Sales Drawing	SD-44068-061
Test Summary	TS-43810-001

This document was generated on 05/14/2010

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PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: SEE CHART

NOTES:

1) MATERIALS:

HOUSING: PA46 FILLED BLACK, UL94V-0

TERMINAL: BRASS

BOARD RETENTION CLIP: BRASS

2) FINISHES:

1 = 0.00254/(.000100) MIN TIN OVER NICKEL

2 = 0.00076/(.000030) MIN GOLD OVER NICKEL

3) PRODUCT SPECIFICATIONS: PS-43810-001

4) PACKAGING SPECIFICATION: PK-43879-002

5) PART MATES WITH MOLEX RECEPTACLE #5557 AND #42474, AND #42385 HEADER.

6) PART ALLOWS FOR 1.27/.050 MAX. MIS-ALIGNMENT WITH MATING HOUSINGS IN ANY DIRECTION.

7) CONNECTOR ASSEMBLIES ARE NOT TO BE MATED AND UNMATED WHILE CIRCUITS ARE LIVE.

8) THIS DIMENSION DOES NOT APPLY TO PARTS WITHOUT P.C. BOARD RETENTION CLIPS.

9) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CKTS	DIM. "A"	DIM. "B"	DIM. "C"
4	18.81 .740	4.20 .165	16.60 .653
6	23.01 .906	8.40 .331	20.80 .819
8	27.21 1.071	12.60 .496	25.00 .984
10	31.41 1.237	16.80 .661	29.20 1.150
12	35.61 1.402	21.00 .828	33.40 1.315
14	39.81 1.567	25.20 .992	37.60 1.480
16	44.01 1.733	29.40 1.157	41.80 1.646
18	48.21 1.898	33.60 1.323	46.00 1.811
20	52.41 2.063	37.80 1.488	50.20 1.976
22	56.61 2.229	42.00 1.654	54.40 2.142
24	60.81 2.394	46.20 1.819	58.60 2.307

2	C1
1	C2
SHEET	REV

CORRECTED NOTE #2 EC NO: UCP2009-4772 DRAWN: TBENES CHKD: 2009/01/23 APPR: FSMITH 2009/01/26	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY JIWANG	DATE 2000/07/27	TITLE MINI-FIT JR BMI SMC VERTICAL HEADER ASM FOR 6.35/.250 THK PCB	
			4 PLACES	± ---	± ---	CHECKED BY BANDURA	DATE 2000/07/27	MOLEX INCORPORATED	
			3 PLACES	± ---	± .010	APPROVED BY EDGLEY	DATE 2000/07/27		
			2 PLACES	± 0.25	± .014	MATERIAL NO. SEE SHEET 2	DOCUMENT NO. SD-44068-061		
1 PLACE	± 0.35	± ---	ANGULAR ±1/2°		SHEET NO. 1 OF 2				
REV			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

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SEE SHEET 1 EC NO: UCP2009-1250 DRWN: JKLOSTEMEIER 2008/11/24 CHKD: JBELL 2008/11/24 APPR: FSMITH 2008/11/24 C1 QUALITY SYMBOLS $\nabla=0$ $\nabla=0$ GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>$\pm .---$</td><td>$\pm .---$</td></tr><tr><td>3 PLACES</td><td>$\pm .---$</td><td>$\pm .010$</td></tr><tr><td>2 PLACES</td><td>± 0.25</td><td>$\pm .014$</td></tr><tr><td>1 PLACE</td><td>± 0.35</td><td>$\pm .---$</td></tr></table> ANGULAR $\pm 1/2^\circ$ DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE MM/IN <table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>JIWANG</td><td>2000/07/27</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>BANDURA</td><td>2000/07/27</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>EDGLEY</td><td>2000/07/27</td></tr></table> MATERIAL NO. SEE CHART SIZE C SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION TITLE MINI-FIT JR BMI SMC VERTICAL HEADER ASM FOR 6.35/.250 THK PCB molex MOLEX INCORPORATED DOCUMENT NO. SD-44068-061 SHEET NO. 2 OF 2 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION <tr><td>tb_frame_C_P_ME_T Rev. D 2004/04/02</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td></td></tr>															mm	INCH	4 PLACES	$\pm .---$	$\pm .---$	3 PLACES	$\pm .---$	$\pm .010$	2 PLACES	± 0.25	$\pm .014$	1 PLACE	± 0.35	$\pm .---$	DRAWN BY	DATE	JIWANG	2000/07/27	CHECKED BY	DATE	BANDURA	2000/07/27	APPROVED BY	DATE	EDGLEY	2000/07/27	tb_frame_C_P_ME_T Rev. D 2004/04/02	12	11	10	9	8	7	6	5	4	3	2	1	
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