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Part Number:

0469911004

Status:

Active

Description:

4.20mm (.165") Pitch Mini-Fit RTC™ Reflow High Temperature Compatible Header, Right Angle, Dual Row, 4 Circuits, without Mounting Peg, Tin (Sn) Over Nickel (Ni) Plating

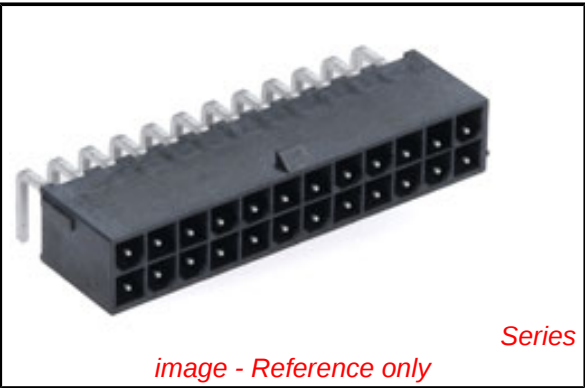
Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR19980
UL	E29179
General	
Product Family	PCB Headers
Series	46991
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 RTC™
Physical	
Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
Durability (mating cycles max)	75
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Nickel
Material - Resin	High Temperature Thermoplastic
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)	1.78 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm
Pitch - Term. Interface (in)	0.165 In
Pitch - Term. Interface (mm)	4.20 mm
Polarized to Mating Part	Yes
Polarized to PCB	Yes



EU RoHS

ELV and RoHS Compliant

REACH SVHC

Contains SVHC: No

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

46991Series

Mates With

5557 Mini Fit Jr.™ Receptacle

Shrouded	Fully
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 AC (RMS)/DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	30
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

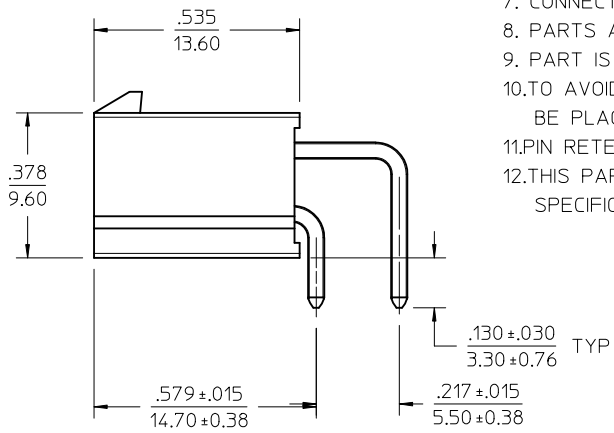
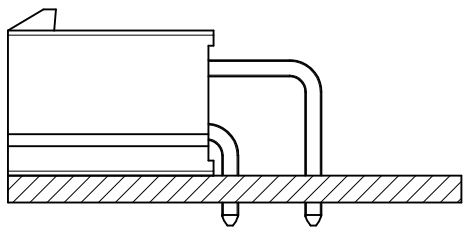
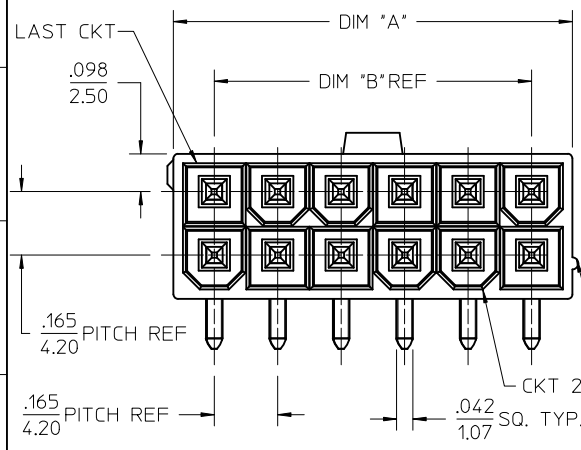
Packaging Specification	PK-5569-003
Sales Drawing	SD-46991-001

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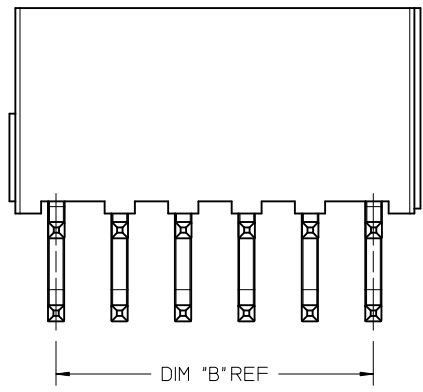
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	13	12	11	10	9	8	7	6	5	4	3	2	1
	CKT SIZE	TRAY PACK MATERIAL NUMBER	TAPE & REEL MATERIAL NUMBER	DIM "A"	DIM "B"								
J	4	46991-1004	46991-4004	.38/9.6	.165/4.20								
	6	46991-1006	X 46991-4006	.54/13.8	.331/8.40								
	8	46991-1008	X 46991-4008	.71/18.0	.496/12.60								
	10	46991-1010	X 46991-4010	.87/22.2	.661/16.80								
	12	46991-1012	X 46991-4012	1.04/26.4	.827/21.00								
	14	X 46991-1014	X 46991-4014	1.21/30.6	.992/25.20								
I	16	X 46991-1016	X 46991-4016	1.37/34.8	1.160/29.40								
	18	X 46991-1018	X 46991-4018	1.54/39.0	1.323/33.60								
	20	X 46991-1020	X 46991-4020	1.70/43.2	1.488/37.80								
	22	X 46991-1022	X 46991-4022	1.87/47.4	1.654/42.00								
	24	X 46991-1024	X 46991-4024	2.03/51.6	1.819/46.20								

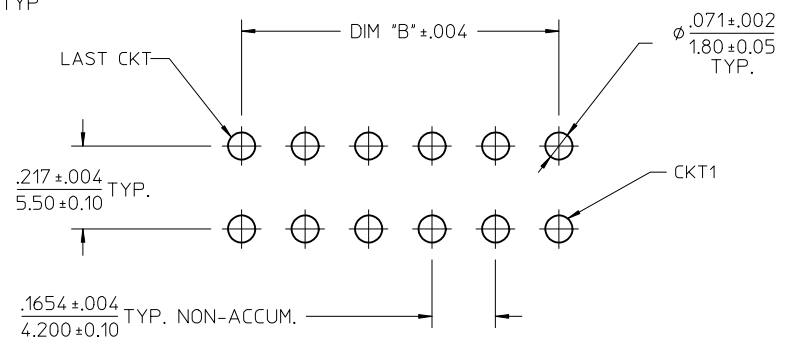
X DESIGNATES NOT TOOLED



CKT 1 INDICATOR



- NOTES:
1. MATERIAL:
HOUSING - LIQUID CRYSTAL POLYMER (LCP), COLOR: BLACK.
TERMINAL - BRASS
 2. TERMINAL PLATING: .000100/0.00254 MATTE TIN OVER
.000050/0.00127 NICKEL OVERALL
 3. PRODUCT SPECIFICATION: PS-46207-001.
 4. PACKAGING SPECIFICATION: TRAY PACKED PER PK-5569-003 OR
TAPE AND REEL PACKAGED PER PK-46991-001.
 5. PART MATES WITH MINIFIT JR RECEPTACLE SERIES 5557
 6. DISCOLORIZATION 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 DISCOLORIZATION IS A NON-FUNCTIONAL AREA OF
THE PIN AND WILL NOT AFFECT THE PERFORMANCE OF THE HEADER ASSEMBLY.
 7. CONNECTORS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
 8. PARTS ARE NOT DESIGNED FOR CURRENT SHARING.
 9. PART IS INTENDED FOR PIN IN PASTE REFLOW SOLDER ONLY.
 10. TO AVOID INTERFERENCE BETWEEN THE RECEPTACLE AND PCB. HEADER MUST
BE PLACED AT THE EDGE OF PCB AS SHOWN.
 11. PIN RETENTION IN HOUSING IS 2.2LBS/1KG MIN. BOTH DIRECTIONS.
 12. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.



ADD TAPE & REEL # EC NO: UCP2010-1398 DRWN: JAGUILAR CHKD: JBELL APPR: FSMITH	REV DESCRIPTION 2009/12/14 2009/12/16 2009/12/16	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 JKLOSTERMEIE	DATE 2008/12/9	TITLE MINIFIT JR RIGHT ANGLE HEADER ASSEMBLY W/O MOUNTING PEGS		
			4 PLACES ±---		±---		CHECKED BY JBELL	DATE 2008/12/10			
			3 PLACES ±---		±.010		APPROVED BY FSMITH				DATE 2008/12/15
			2 PLACES ±0.25		±.015		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-46991-001		SHEET NO. 1 OF 1
			1 PLACE ±0.38		±---		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		
			ANGULAR ±1/2°								