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Part Number: [0910091016](#)
Status: **Active**
Overview: [junction box io connectors](#)
Description: Junction Box, ISO, Right Angle, Clinch, Gateway Pin, Direct Grounding, without Fuse

Documents:

[3D Model](#) [Product Specification PS-99020-0076 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

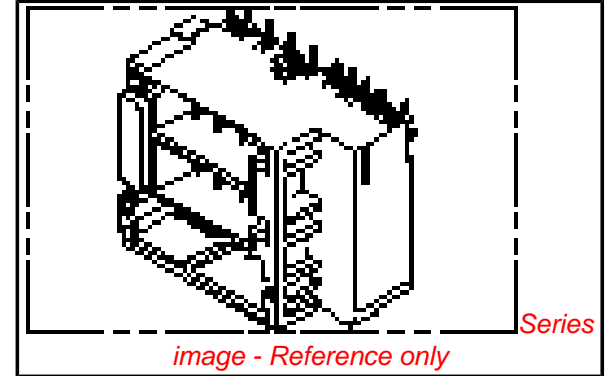
General

Product Family	PCB Headers
Series	91009
Application	Wire-to-Board
Comments	Clinch, Direct Grounding, Gateway Pin, without Fuse
Overview	junction box io connectors
Product Name	Junction Box

Physical

Breakaway	No
Circuits (Loaded)	36
Circuits (maximum)	36
Circuits Detail	Spade 36
Color - Resin	Black
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	Yes
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	7
Orientation	Right Angle
PC Tail Length (in)	0.125 In
PC Tail Length (mm)	3.20 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.148 In, 0.197 In
Pitch - Mating Interface (mm)	3.75 mm, 5.00 mm
Plating min: Mating (µin)	120
Plating min: Mating (µm)	3
Plating min: Termination (µin)	120
Plating min: Termination (µm)	3
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole

Electrical



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
[91009Series](#)

Current - Maximum per Contact
Voltage - Maximum

10A
12V

Solder Process Data

Lead-free Process Capability

Wave Capable (TH only)

Material Info

Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-99020-0076
SD-91009-001

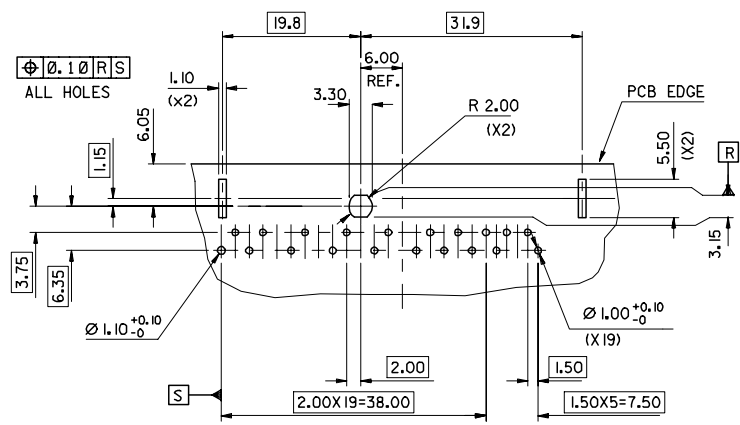
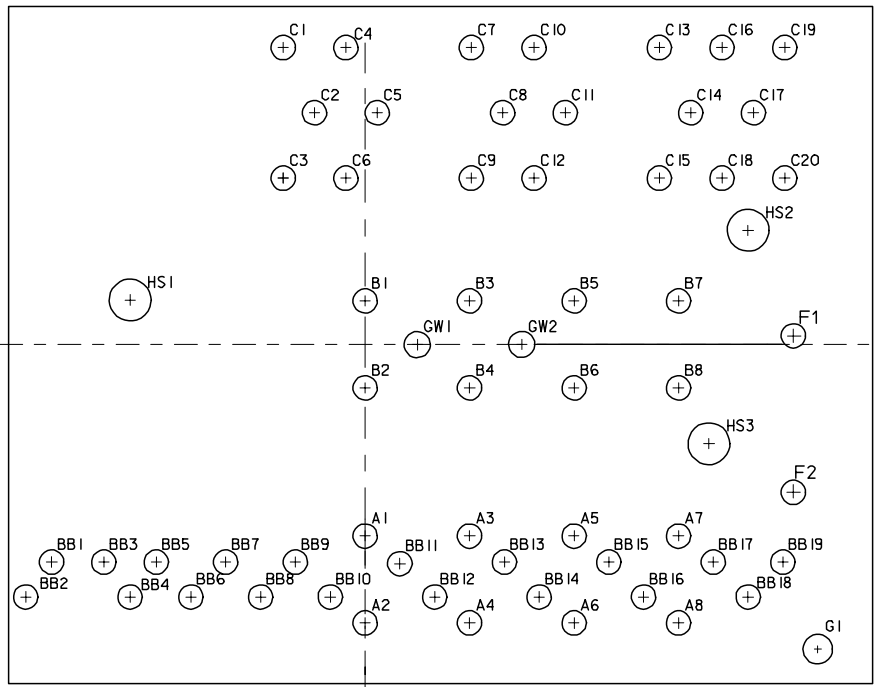
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HOLE REFERENCE	⊕ 0.10 X Y		∅ ±0.10	HOLE REFERENCE	⊕ 0.10 X Y		∅ ±0.10
	X	Y			X	Y	
A1	0	-11.00	1.40	B1	0	2.50	1.40
A2	0	-16.00	1.40	B2	0	-2.50	1.40
A3	6.00	-11.00	1.40	B3	6.00	2.50	1.40
A4	6.00	-16.00	1.40	B4	6.00	-2.50	1.40
A5	12.00	-11.00	1.40	B5	12.00	2.50	1.40
A6	12.00	-16.00	1.40	B6	12.00	-2.50	1.40
A7	18.00	-11.00	1.40	B7	18.00	2.50	1.40
A8	18.00	-16.00	1.40	B8	18.00	-2.50	1.40
BB1	-18.00	-12.50	1.40	C1	-4.70	17.05	1.40
BB2	-19.50	-14.50	1.40	C2	-2.90	13.30	1.40
BB3	-15.00	-12.50	1.40	C3	-4.70	9.55	1.40
BB4	-13.50	-14.50	1.40	C4	-1.10	17.05	1.40
BB5	-12.00	-12.50	1.40	C5	0.70	13.30	1.40
BB6	-10.00	-14.50	1.40	C6	-1.10	9.55	1.40
BB7	-8.00	-12.50	1.40	C7	6.10	17.05	1.40
BB8	-6.00	-14.50	1.40	C8	7.90	13.30	1.40
BB9	-4.00	-12.50	1.40	C9	6.10	9.55	1.40
BB10	-2.00	-14.50	1.40	C10	9.70	17.05	1.40
BB11	2.00	-12.50	1.40	C11	11.50	13.30	1.40
BB12	4.00	-14.50	1.40	C12	9.70	9.55	1.40
BB13	8.00	-12.50	1.40	C13	16.90	17.05	1.40
BB14	10.00	-14.50	1.40	C14	18.70	13.30	1.40
BB15	14.00	-12.50	1.40	C15	16.90	9.55	1.40
BB16	16.00	-14.50	1.40	C16	20.50	17.05	1.40
BB17	20.00	-12.50	1.40	C17	22.30	13.30	1.40
BB18	22.00	-14.50	1.40	C18	20.50	9.55	1.40
BB19	24.00	-12.50	1.40	C19	24.10	17.05	1.40
G1	26.00	-17.50	1.70	C20	24.10	9.55	1.40
GW1	3.00	0	1.50	HS1	-13.50	2.55	2.40
GW2	9.00	0	1.50	HS2	22.00	6.55	2.40
				HS3	19.75	-5.70	2.40
				F1	24.60	0.50	1.40
				F2	24.60	-8.50	1.40

NOTES:
1. USE A2,B1 AS POINTS FOR DATUM X



ADDED HOLE POSN	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	MM ONLY		5:1	METRIC		
EC NO: E2006-0539	DESCRIPTION	4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE JUNCTION BOX VERSION 3 MAIN & REAR PCB LAYOUT			
DRWN:SGMCAHON 2005/12/07		3 PLACES ± ---	± ---	S MCAHON	06/10/2005				
CHK:CB MAGUIRE 2005/12/15	REVISION	2 PLACES ± 0.05	± ---	CHECKED BY	DATE	MOLEX INCORPORATED			
APPR:BMAGUIRE 2006/01/11		1 PLACE ± 0.10	± ---	B MAGUIRE	06/10/2005				
		ANGULAR ± --- °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		See Sheet 1		SD-91009-001		2 OF 2	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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