

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0910090016](#)  
**Status:** **Active**  
**Overview:** [junction box io connectors](#)  
**Description:** Junction Box, ISO, Right Angle, Clinch, Gateway Pin, Direct Grounding, with Fuse

**Documents:**

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

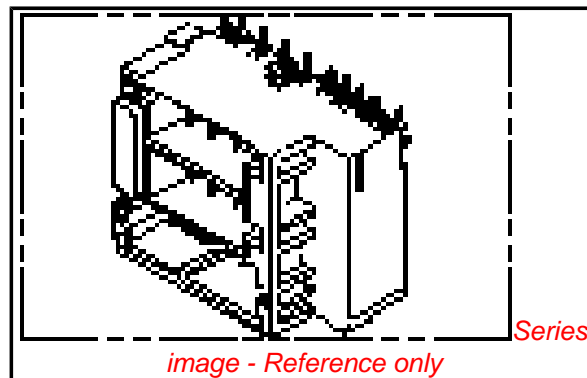
**General**

Product Family	PCB Headers
Series	<a href="#">91009</a>
Application	Wire-to-Board
Comments	with Fuse Clinch Direct Grounding Gateway Pin
Overview	<a href="#">junction box io connectors</a>
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, Tin-Lead
Material - Plating Termination	Tin, Tin-Lead
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**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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.

**China RoHS**



**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

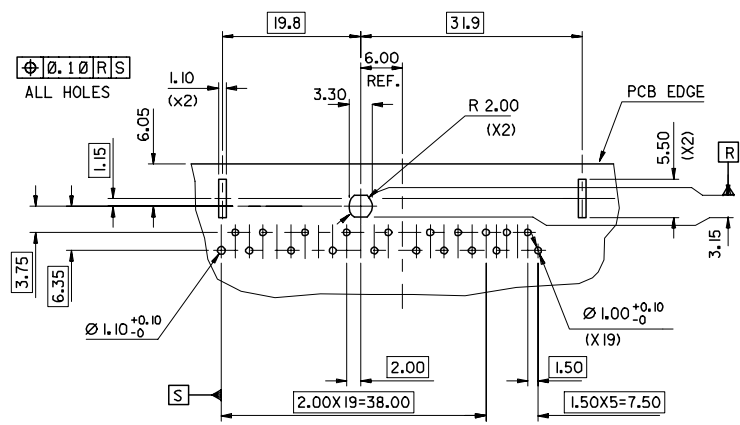
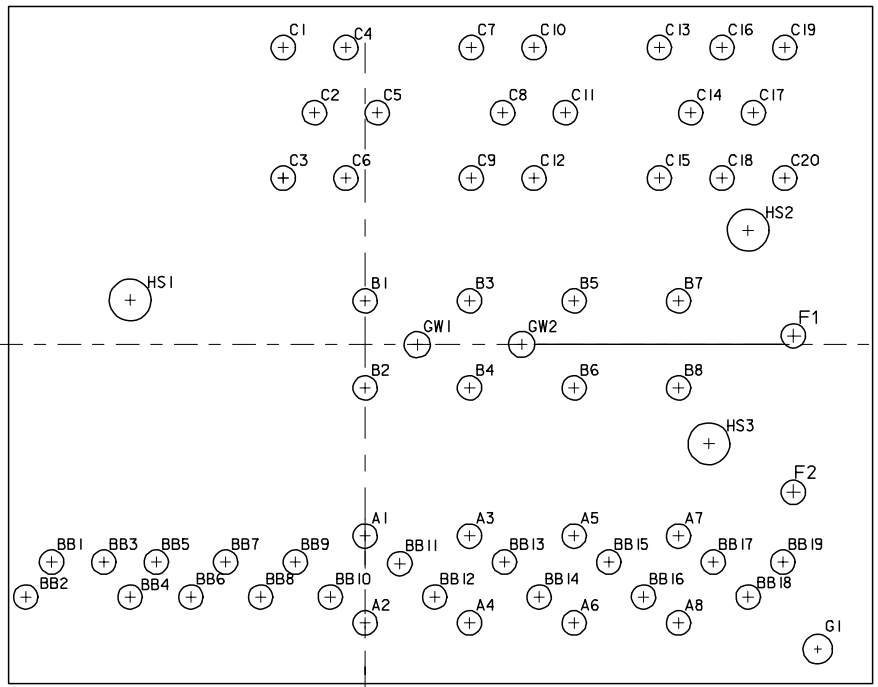
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13 12 11 10 9 8 7 6 5 4 3 2 1

HOLE REFERENCE	⊕ 0.10 X Y		∅ +0.10 -0	HOLE REFERENCE	⊕ 0.10 X Y		∅ +0.10 -0
	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 EC NO: E2006-0539 DRAWN: SGMCAHON 2005/12/07 CHK'D: B MAGUIRE 2005/12/15 APPR: B MAGUIRE 2006/01/11	QUALITY SYMBOLS ▽ = ▽ =	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ± ---	± ---	mm	INCH	DRAWN BY S MCAHON	DATE 06/10/2005	TITLE JUNCTION BOX VERSION 3 MAIN & REAR PCB LAYOUT
REV	DESCRIPTION	3 PLACES ± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHECKED BY B MAGUIRE	DATE 06/10/2005	MOLEX INCORPORATED DOCUMENT NO. SD-91009-001
		2 PLACES ± 0.05	± ---	See Sheet 1		APPROVED BY B MAGUIRE	DATE 06/10/2005	
		1 PLACE ± 0.10	± ---	SIZE A2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
		ANGULAR ± ---°		SHEET NO. 2 OF 2				

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