

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

**Part Number:** [0010181091](#)  
**Status:** **Active**  
**Description:** 2.36mm (.093") Diameter Standard .093" Pin and Socket Header, 3 Rows, Shrouded, Unfilled Polyester, UL 94V-0, 9 Circuits, 9 Female Terminals

**Documents:**

[3D Model](#)  
[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

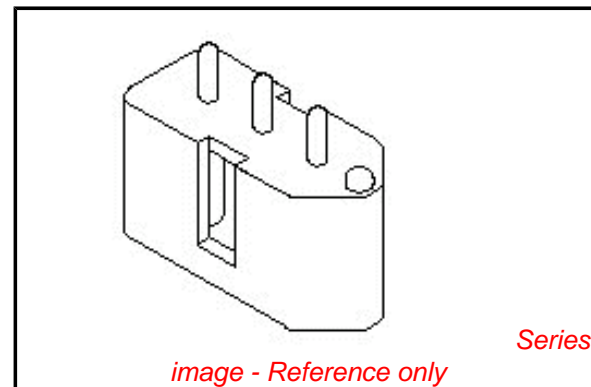
**General**

Product Family	PCB Headers
Series	3099
Application	Wire-to-Board
Comments	Solder Type, Round Socket
Product Name	Standard .093"

**Physical**

Breakaway	No
Circuits (Loaded)	9
Circuits (maximum)	9
Circuits Detail	9 Female Socket Contacts
Color - Resin	Black
Durability (mating cycles max)	25
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	Phosphor Bronze
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	3
Orientation	Vertical
PC Tail Length (in)	0.170 In
PC Tail Length (mm)	4.32 mm
PCB Locator	Yes
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.198 In
Pitch - Mating Interface (mm)	5.03 mm
Plating min: Mating (µin)	50
Plating min: Mating (µm)	1.25
Plating min: Termination (µin)	50
Plating min: Termination (µm)	1.25
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°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](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.

**Search Parts in this Series**

[3099Series](#)

**Mates With**

[03-09-1091](#) , [03-09-1094](#)

Current - Maximum per Contact  
Voltage - Maximum

5A  
250V

**Material Info**

Old Part Number

A30990902

**Reference - Drawing Numbers**

Sales Drawing

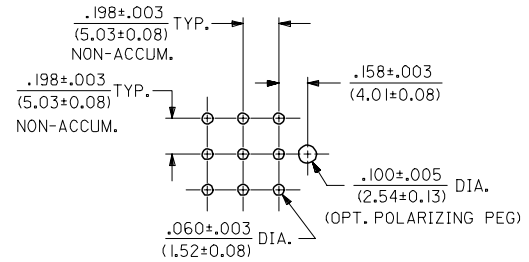
SDA-3099-09\*\*

This document was generated on 04/20/2010

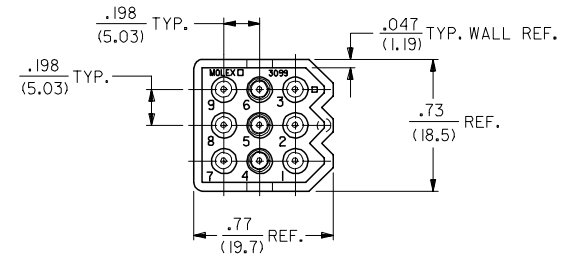
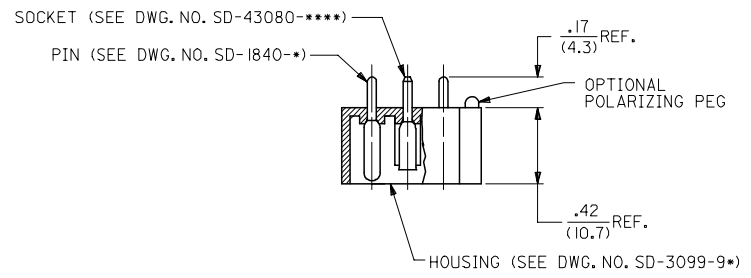
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	13	12	11	10	9	8	7	6	5	4	3	2	1				
	PART NO.	ENG. NUMBER	TERMINAL LOCATION (SEE CHART)	MAT'L	POLAR. PEG	PLATING (SEE CHART)	TERMINAL LOCATION CHART (M=MALE, F=FEMALE, B=BLANK)			PLATING CODE	PLATING						
J	10-18-1090	A-3099-0901	A	V-O	YES	B	TERMINAL LOCATION CHART			A	UNPLATED			J			
	10-18-1091	A-3099-0902	B	V-O	YES	B	TERMINAL LOCATION CODE	CIRCUIT LOCATION			B	.000200/(0.00508) MIN. ELECTRO TIN OVER .000100/(0.00254) MIN. COPPER (PINS ONLY) POST PLATE BRIGHT TIN .000050/(0.00125) MIN OVERALL OVER .000050/(0.00125) MIN OVERALL NICKEL PER ES-88. (SOCKETS ONLY)			I		
I							I	2	3	4					5	6	7
							A	M	M	M	M	M	M	M	M		H
							B	F	F	F	F	F	F	F	F		G
																	F
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																	D
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\*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC." CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD.



RECOMMENDED P.C. BOARD HOLE LAYOUT  
SCALE: 2X



- NOTES:
- MATERIAL:  
HOUSING: UNFILLED POLYESTER, 94V-0, COLOR-BLACK  
PIN TERMINAL: CARTRIDGE BRASS, ALLOY NO. C26000  
SOCKET TERMINAL: PHOSPHOR BRONZE, ALLOY NO. C51000
  - MATES WITH MOLEX 1292 RECEPTACLES AND .093/(2.36) SERIES TERMINALS.
  - ASSEMBLIES TO BE MOUNTED ON SUPPORTED EDGE OF P.C. BOARD.
  - WHERE MALE TERMINALS ARE USED, MATING CONNECTOR TO USE FEMALE TERMINAL WITH CLOSED SLOT IN BARREL.

REV PLATING NOTE EC NO: UCP2005-1363 DRAWN/ADERR 2005/01/10 CHKD:ADERR 2005/01/10 APPR:FSM:TH 2005/01/10	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		mm	INCH	IN/MM		2:1	INCH		
D4	DESCRIPTION	4 PLACES	± .010	± .010	DRAWN BY	DATE	CONNECTOR ASSEMBLY ENCLOSED WAFER 9 CIRCUIT		
		3 PLACES	± .014	± .014	GEP	1989/05/25			
		2 PLACES	± 0.25	± .014	CHECKED BY	DATE	MOLEX INCORPORATED		
		1 PLACE	± 0.35	± .014	RW	1989/05/25			
		ANGULAR ±1/2°		APPROVED BY	DATE	SDA-3099-09**			
				RAS	1989/05/25				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
				SEE CHART	SDA-3099-09**	1 OF 1			
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							