

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0908160510

Status:

Active

Description:

1.27mm (.050") Pitch Picoflex® SMT Latched Vertical Header, 10 Circuits, Tin (Sn) Plating, Black

Documents:

3D Model

Drawing (PDF)

Product Specification PS-99020-0011 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Product Name

PCB Headers

90816

Wire-to-Board

Picoflex®

Physical

Breakaway

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Polarized to Mating Part

Polarized to PCB

Shrouded

Stackable

Surface Mount Compatible (SMC)

Temperature Range - Operating

Termination Interface: Style

No

10

10

Black

5

No

No

Yes

N/A

Yes

Brass

Tin

Nickel

Nylon

1

Vertical

0.041 In

1.05 mm

No

None

0.063 In

1.60 mm

Embossed Tape on Reel

0.050 In

1.27 mm

0.050 In

1.27 mm

3

Yes

Yes

Partial

No

Yes

-40°C to +105°C

Surface Mount

Electrical

Current - Maximum per Contact

Voltage - Maximum

1.2A

250V

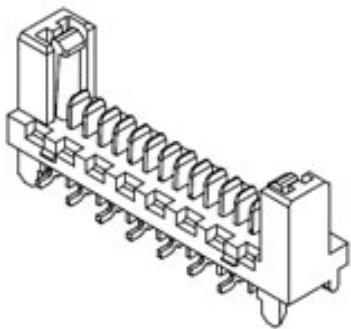


image - Reference only

Series

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

90816Series

Mates With

90327 Picoflex® PF-50

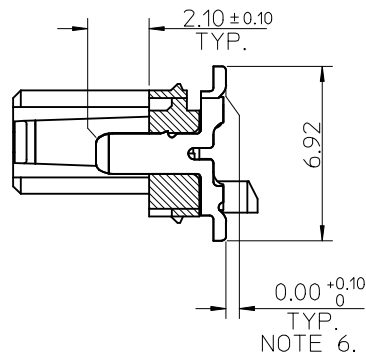
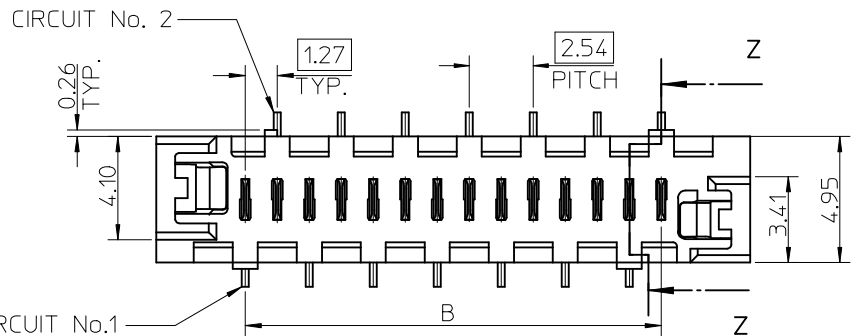
Material Info

Reference - Drawing Numbers

Product Specification	PS-99020-0011
Sales Drawing	SD-90816-001

This document was generated on 04/23/2010

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14 CIRCUIT SHOWN
FOR ILLUSTRATION
ONLY.

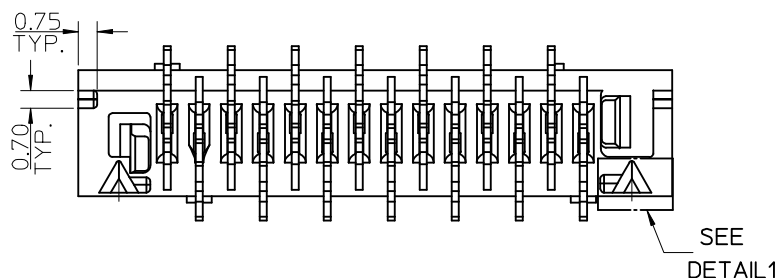
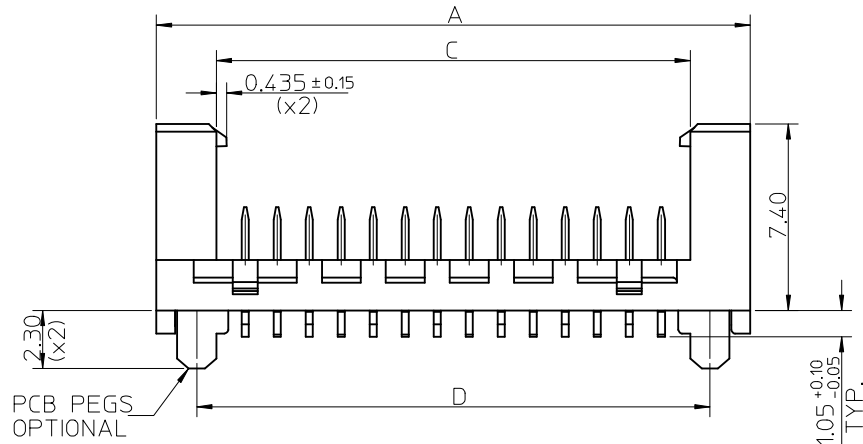
PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	DIMN. D	
90816-**-04	4	10.86	3.81	6.11	7.66	NOTE 7
90816-**-06	6	13.40	6.35	8.65	10.20	
90816-**-08	8	15.94	8.89	11.19	12.74	
90816-**-10	10	18.48	11.43	13.73	15.28	
90816-**-12	12	21.02	13.97	16.27	17.82	
90816-**-14	14	23.56	16.51	18.81	20.36	
90816-**-16	16	26.10	19.05	21.35	22.90	
90816-**-18	18	28.64	21.59	23.89	25.44	
90816-**-20	20	31.18	24.13	26.43	27.98	
90816-**-22	22	33.72	26.67	28.97	30.52	
90816-**-24	24	36.26	29.21	31.51	33.06	
90816-**-26	26	38.80	31.75	34.05	35.60	

90816 - * * * *

CIRCUIT SIZE.

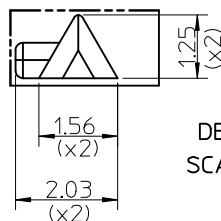
	PCB PEGS	TUBE PACKED	TAPE & REEL PACKED
0	YES	YES	NO
2	YES	NO	YES
3	NO	YES	NO
5	NO	NO	YES

0 = TIN VERSION
3 = GOLD VERSION



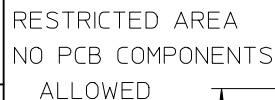
NOTES:

- 1- MATERIAL
HOUSING: PPA, GLASS-FILLED, COLOUR: BLACK
TERMINAL: BRASS
- 2- FINISHES: TERMINAL
GOLD: CONTACT AREA: SELECTIVE GOLD, 0.76 MICRONS MINIMUM,
SMT TAILS: GOLD FLASH, 0.10 MICRONS GOLD FLASH OVER
NICKEL UNDERPLATE.
TIN: 3 MICRONS MINIMUM OVER NICKEL UNDERPLATE.
- 3- PRODUCT SPECIFICATION: PS-99020-0011
- 4- PACKAGING SPECIFICATION: FOR TAPE AND REEL SEE: PK-90816-006
FOR TUBE SEE: PK-90816-007
- 5- MATES WITH MOLEX 90327 PART SERIES.
- 6- ALL SMT TAILS TO LIE WITHIN A COPLANARITY BAND
OF 0 - 0.10 MICROMETER REF. FROM EACH OTHER.
- 7- 4 CIRCUIT PART NOT AVAILABLE IN TAPE AND REEL.



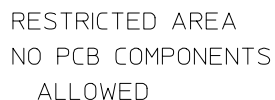
DETAIL1
SCALE 10:1

ADDED NOTE 7 EC NO: E2009-0207 2008/11/10 DRWN: DBYRNES CHKD: 2008/11/10 APPR: J WALLACE 2008/11/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			MM ONLY		5:1	METRIC		
					TITLE		PICOFLEX SMT LATCHED HEADER	
					DRAWN BY DATE			
					D.BYRNES 2008/08/16			
					CHECKED BY DATE			
					JD WALLACE 2008/08/26			
					APPROVED BY DATE			
					JD WALLACE 2008/08/27		molex MOLEX INCORPORATED	
					MATERIAL NO.		DOCUMENT NO.	
		SEE CHART		SD-90816-001		1 OF 2		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
		SIZE A3						



RECOMMENDED PCB THICKNESS 1.60±0.14
PCB LAYOUT FOR CLEARANCE FIT WITH PCB PEGS

HEADER VERSIONS 90816-~~0~~*/~~2~~**
VIEWED FROM COMPONENT SIDE
6CKT PART SHOWN FOR REFERENCE



RECOMMENDED PCB THICKNESS 1.60±0.14
PCB LAYOUT WITHOUT PCB PEGS
HEADER VERSIONS 90816-~~3~~**/*5**
VIEWED FROM COMPONENT SIDE
6CKT PART SHOWN FOR REFERENCE

SEE SHEET 1	EC NO: E2009-0207 DRWN: DBYRNES CHK'D: JMWALLACE APPR: JMWALLACE	2008/11/10 2008/11/10 2008/11/11	DESCRIPTION	REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
							mm	INCH	DRAWN BY D.BYRNES	DATE 2008/08/16	TITLE PICOFLEX SMT LATCHED HEADER		
						4 PLACES	± ---	± ---	CHECKED BY JDWALLACE	DATE 2008/08/26			
						3 PLACES	± ---	± ---	APPROVED BY JDWALLACE	DATE 2008/08/27			
		2 PLACES	± 0.25	± ---					MOLEX MOLEX INCORPORATED				
		1 PLACE	± 0.35	± ---	ANGULAR ± 2 °		MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-90816-001		SHEET NO. 2 OF 2		
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							