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Part Number: [0908163220](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Picoflex® SMT Latched Vertical Header, 20 Circuits, Gold (Au) Plating, Black

Documents:
[3D Model](#) [Product Specification PS-99020-0011 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family PCB Headers
Series [90816](#)
Application Wire-to-Board
Product Name Picoflex®

Physical

Breakaway No
Circuits (Loaded) 20
Circuits (maximum) 20
Color - Resin Black
Durability (mating cycles max) 5
First Mate / Last Break No
Glow-Wire Compliant No
Guide to Mating Part Yes
Keying to Mating Part N/A
Lock to Mating Part Yes
Material - Metal Brass
Material - Plating Mating Gold
Material - Plating Termination Nickel
Material - Resin Nylon
Number of Rows 1
Orientation Vertical
PC Tail Length (in) 0.041 In
PC Tail Length (mm) 1.05 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.063 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.050 In
Pitch - Mating Interface (mm) 1.27 mm
Pitch - Term. Interface (in) 0.050 In
Pitch - Term. Interface (mm) 1.27 mm
Plating min: Mating (µin) 0.76
Polarized to Mating Part Yes
Polarized to PCB Yes
Shrouded Partial
Stackable No
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -40°C to +105°C
Termination Interface: Style Surface Mount

Electrical

Current - Maximum per Contact 1.2A
Voltage - Maximum 250V

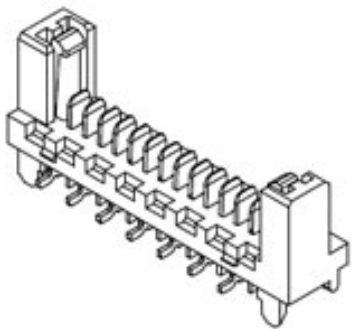


image - Reference only

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

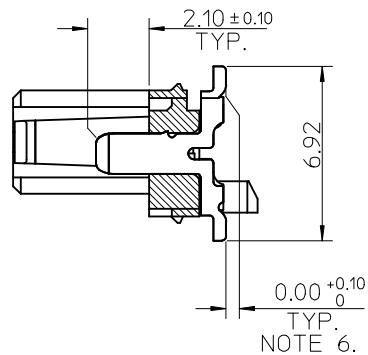
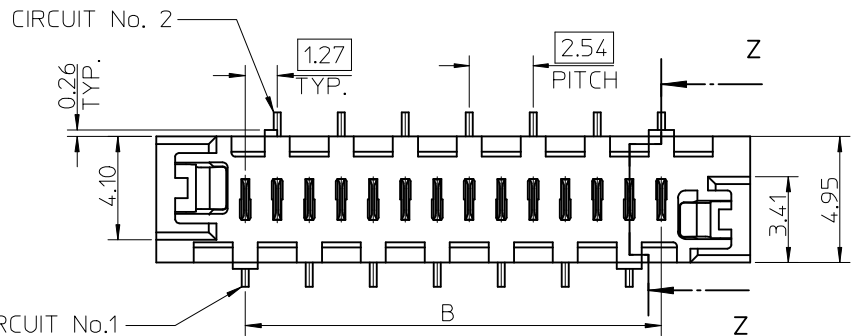
Reference - Drawing Numbers

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

This document was generated on 04/23/2010

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10 9 8 7 6 5 4 3 2 1



14 CIRCUIT SHOWN
FOR ILLUSTRATION
ONLY.

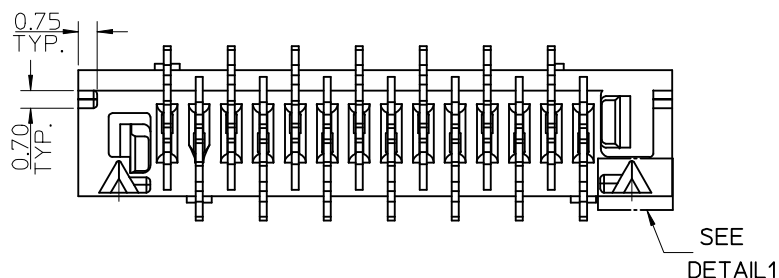
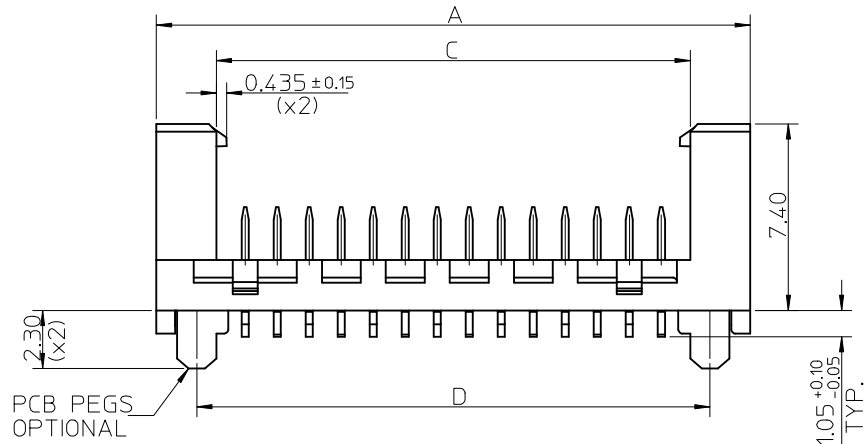
PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	DIMN. D	
90816-**-04	4	10.86	3.81	6.11	7.66	NOTE 7
90816-**-06	6	13.40	6.35	8.65	10.20	
90816-**-08	8	15.94	8.89	11.19	12.74	
90816-**-10	10	18.48	11.43	13.73	15.28	
90816-**-12	12	21.02	13.97	16.27	17.82	
90816-**-14	14	23.56	16.51	18.81	20.36	
90816-**-16	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.

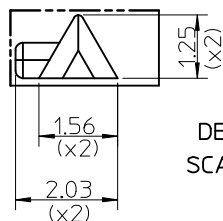
	PCB PEGS	TUBE PACKED	TAPE & REEL PACKED
0	YES	YES	NO
2	YES	NO	YES
3	NO	YES	NO
5	NO	NO	YES

0 = TIN VERSION
3 = GOLD VERSION



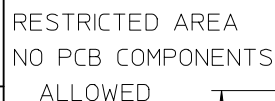
NOTES:

- 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.



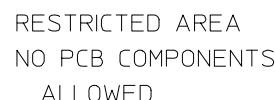
DETAIL1
SCALE 10:1

ADDED NOTE 7 EC NO: E2009-0207 2008/11/10 DRAWN: 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			
					DRAWN BY DATE		TITLE PICOFLEX SMT LATCHED HEADER		
					D. BYRNES 2008/08/16				
					CHECKED BY DATE		MOLEX MOLEX INCORPORATED		
					JD WALLACE 2008/08/26				
					APPROVED BY DATE		DOCUMENT NO. SHEET NO.		
					JD WALLACE 2008/08/27				
					ANGULAR ± 2 °		SD-90816-001 1 OF 2		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



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 CHKD: JMWALLACE APPR: JMWALLACE	2008/11/10 2008/11/10 2008/11/10	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION ⊙ ◻			
						DRAWN BY DATE		TITLE PICOFLEX SMT LATCHED HEADER					
						D.BYRNES 2008/08/16							
						CHECKED BY DATE		PICOFLEX SMT LATCHED HEADER					
						JDWALLACE 2008/08/26							
						APPROVED BY DATE		MOLEX MOLEX INCORPORATED					
						JDWALLACE 2008/08/27							
				ANGULAR ± 2 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-90816-001				2 OF 2	
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					