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Part Number: [0908163022](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Picoflex® SMT Latched Vertical Header, 22 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)	22
Circuits (maximum)	22
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	None
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tube
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



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

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PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	DIMN. D
90816-**-04	4	10.86	3.81	6.11	7.66
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

NOTE 7



14 CIRCUIT SHOWN FOR ILLUSTRATION ONLY.

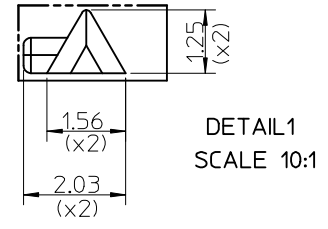
90816 - * * * *

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:
- MATERIAL HOUSING: PPA, GLASS-FILLED, COLOUR: BLACK TERMINAL: BRASS
 - 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.
 - PRODUCT SPECIFICATION: PS-99020-0011
 - PACKAGING SPECIFICATION: FOR TAPE AND REEL SEE: PK-90816-006 FOR TUBE SEE: PK-90816-007
 - MATES WITH MOLEX 90327 PART SERIES.
 - ALL SMT TAILS TO LIE WITHIN A COPLANARITY BAND OF 0 - 0.10 MICROMETER REF. FROM EACH OTHER.
 - 4 CIRCUIT PART NOT AVAILABLE IN TAPE AND REEL.



ADDED NOTE 7 EC NO: E2009-0207 DRWN: DBYRNES 2008/11/10 CHKD: 2008/11/10 APPR: JWALLACE 2008/11/11	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽ = 0 ◻ = 0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± 0.35 ± --- ANGULAR ± 2 °	MM ONLY	5:1	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY DATE	TITLE		
			D.BYRNES 2008/08/16	PICOFLEX SMT LATCHED HEADER		
			CHECKED BY DATE	MOLEX INCORPORATED		
			JDWALLACE 2008/08/26	DOCUMENT NO.		
			APPROVED BY DATE	SD-90816-001		
			JDWALLACE 2008/08/27	SHEET NO.		
			MATERIAL NO.	1 OF 2		
			SEE CHART	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

F

E

D

C

B

A

RESTRICTED AREA
NO PCB COMPONENTS
ALLOWED



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

RESTRICTED AREA
NO PCB COMPONENTS
ALLOWED



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

90816-***26	26	38.80	31.75	35.60	17.80
90816-***24	24	36.26	29.21	33.06	16.53
90816-***22	22	33.72	26.67	30.52	15.26
90816-***20	20	31.18	24.13	27.98	13.99
90816-***18	18	28.64	21.59	25.44	12.72
90816-***16	16	26.10	19.05	22.90	11.45
90816-***14	14	23.56	16.51	20.36	10.18
90816-***12	12	21.02	13.97	17.82	8.91
90816-***10	10	18.48	11.43	15.28	7.64
90816-***08	8	15.94	8.89	12.74	6.37
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90816-***04	4	10.86	3.81	7.66	3.83
PART NO.	NUMBER OF CKTS	DIM. E	DIM. F	DIM. G	DIM. H
		±0.10	±0.10	±0.10	±0.10

SEE SHEET 1 EC NO: E2009-0207 DRWN:DBYRNES 2008/11/10 CHKD: 2008/11/10 APPR: JWALLACE 2008/11/11	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± 0.35 ± --- ANGULAR ± 2 °	DIMENSION STYLE MM ONLY DRAWN BY: D.BYRNES DATE: 2008/08/16 CHECKED BY: JDWALLACE DATE: 2008/08/26 APPROVED BY: JDWALLACE DATE: 2008/08/27	SCALE 5:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE PICO FLEX SMT LATCHED HEADER	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE SHEET 1	MATERIAL NO.	DOCUMENT NO. SD-90816-001	SHEET NO. 2 OF 2	
	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	REV	MOLEX INCORPORATED				