

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

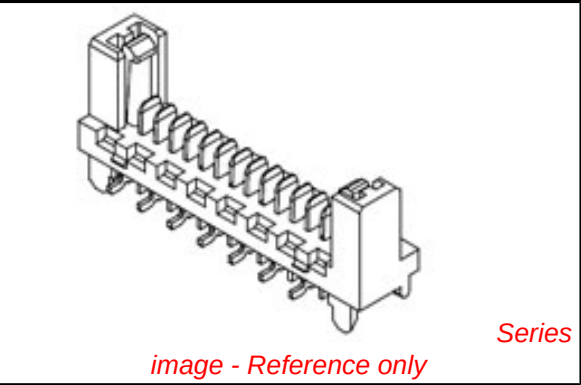
0908163520

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	No
PCB Retention	None
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	No
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

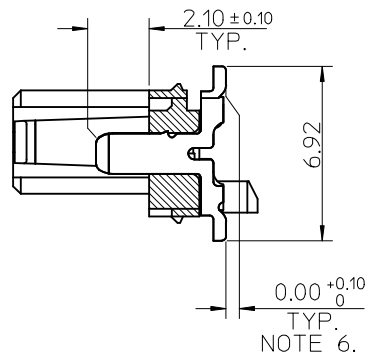
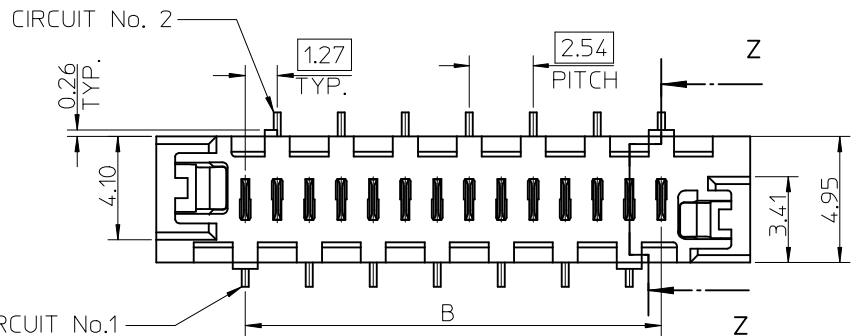
Material Info

Reference - Drawing Numbers

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

This document was generated on 04/23/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



14 CIRCUIT SHOWN
FOR ILLUSTRATION
ONLY.

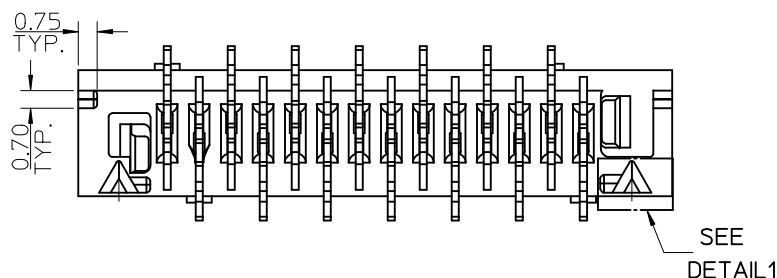
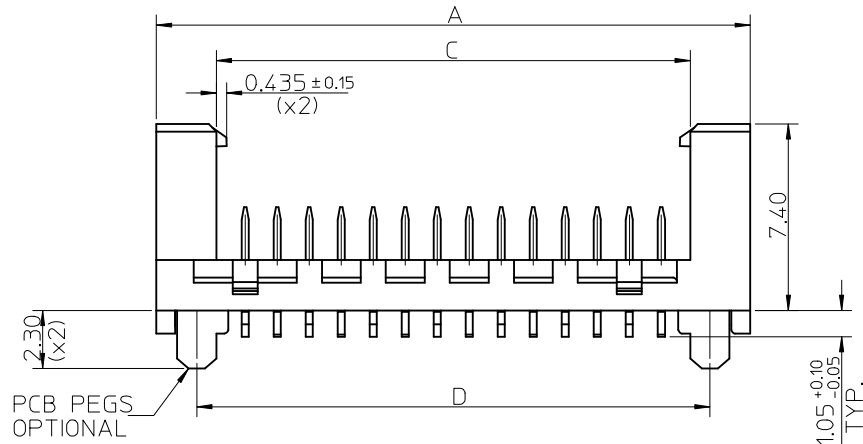
PART NO.	NUMBER OF CKTS	DIMN. A	DIMN. B	DIMN. C	DIMN. D	
90816-**-04	4	10.86	3.81	6.11	7.66	NOTE 7
90816-**-06	6	13.40	6.35	8.65	10.20	
90816-**-08	8	15.94	8.89	11.19	12.74	
90816-**-10	10	18.48	11.43	13.73	15.28	
90816-**-12	12	21.02	13.97	16.27	17.82	
90816-**-14	14	23.56	16.51	18.81	20.36	
90816-**-16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

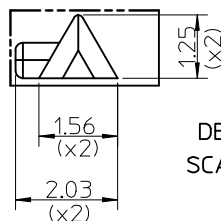
	PCB PEGS	TUBE PACKED	TAPE & REEL PACKED
0	YES	YES	NO
2	YES	NO	YES
3	NO	YES	NO
5	NO	NO	YES

0 = TIN VERSION
3 = GOLD VERSION



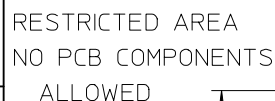
NOTES:

- 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.



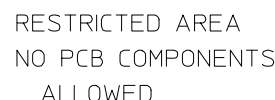
DETAIL1
SCALE 10:1

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 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 JD WALLACE		DATE 2008/08/26		
			3 PLACES	± ---	± ---	APPROVED BY JD WALLACE		DATE 2008/08/27		
			2 PLACES	± 0.25	± ---	MATERIAL NO.		DOCUMENT NO.		
			1 PLACE	± 0.35	± ---	SEE CHART		SD-90816-001		SHEET NO. 1 OF 2
			ANGULAR ± 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 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
							DRAWN BY DATE		TITLE PICOFLEX SMT LATCHED HEADER		
							D.BYRNES 2008/08/16				
							CHECKED BY DATE				
							JDWALLACE 2008/08/26				
				APPROVED BY DATE		MOLEX MOLEX INCORPORATED					
		JDWALLACE 2008/08/27									
				MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
				SEE SHEET 1		SD-90816-001		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					