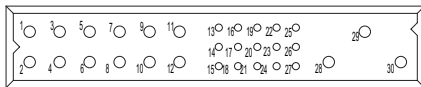




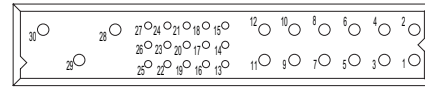
The PCIM Series encompasses all of the features of the PCIH Series in a smaller package. Reliability, high current capacity and many system management connections make the PCIM Series ideal for use in telecom, computer, information systems and industrial applications.

PCIM SERIES CONTACT VARIANTS

FACE VIEW OF MALE AND REAR VIEW OF FEMALE

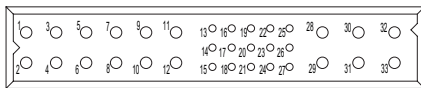


PCIM30W15 VARIANT

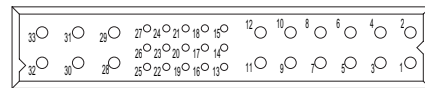


PCIM30W15R VARIANT (Inverted Termination)

15 Size 16 Power Contacts and 15 Size 22 Signal Contacts

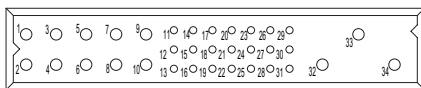


PCIM33W18 VARIANT

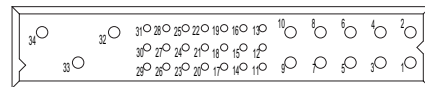


PCIM33W18R VARIANT (Inverted Termination)

18 Size 16 Power Contacts and 15 Size 22 Signal Contacts

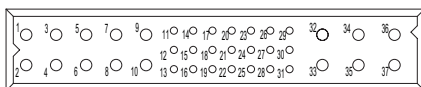


PCIM34W13 VARIANT

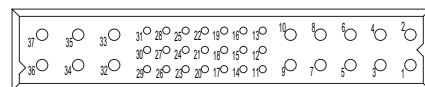


PCIM34W13R VARIANT (Inverted Termination)

13 Size 16 Power Contacts and 21 Size 22 Signal Contacts



PCIM37W16 VARIANT



PCIM37W16R VARIANT (Inverted Termination)

16 Size 16 Power Contacts and 21 Size 22 Signal Contacts



MATERIALS AND FINISHES:

Insulator:	Glass-filled polyester, UL 94V-0, blue color.
Contacts:	Size 16 contacts: High conductivity precision- machined copper alloy. Size 22 contacts: Precision-machined copper alloy.
Plating:	Gold flash over nickel. Other plating options available, refer to Step 7 on page 70.
Mounting Screws:	Steel, zinc plated.

ELECTRICAL CHARACTERISTICS:

PCIM Contact Current Ratings, per UL 1977

See Temperature Rise Curves on page 5 for details.

PCIM30W15:

Size 16 Power Contacts: Positions 28, 29, and 30:	45 amperes continuous, all contacts under load.
Positions 1 through 12:	32 amperes continuous, all contacts under load.
Size 22 Signal Contacts:	3 amperes nominal rating.

PCIM33W18:

Size 16 Power Contacts:	30 amperes continuous, all contacts under load.
Size 22 Signal Contacts:	3 amperes nominal rating.

PCIM34W13:

Size 16 Power Contacts: Positions 32, 33, and 34:	45 amperes continuous, all contacts under load.
Positions 1 through 10:	32 amperes continuous, all contacts under load.
Size 22 Signal Contacts:	3 amperes nominal rating.

PCIM37W16:

Size 16 Power Contacts:	30 amperes continuous, all contacts under load.
Size 22 Signal Contacts:	3 amperes nominal rating.

Initial Contact Resistance:

Size 16 Contact:	0.0007 ohms maximum.
Size 22 Contact:	0.005 ohms maximum. Per IEC 512-2, Test 2b.

Insulator Resistance:

5 G ohms per IEC 512-2, Test 3a.

Voltage Proof:

PCIM30W15:

Contacts 28, 29, and 30:	3,000 V r.m.s.
Contacts 1 through 12:	1,500 V r.m.s.
Contacts 13 through 27:	1,000 V r.m.s.

PCIM33W18:

Contacts 1 through 12 and 28 through 33:	1,500 V r.m.s.
Contacts 13 through 27:	1,000 V r.m.s.

PCIM34W13:

Contacts 32, 33, and 34:	3,000 V r.m.s.
Contacts 1 through 10:	1,500 V r.m.s.
Contacts 11 through 31:	1,000 V r.m.s.

PCIM37W16:

Contacts 1 through 10 and 32 through 37:	1,500 V r.m.s.
Contacts 11 through 31:	1,000 V r.m.s.

Creepage and Clearance

Distance; minimum:

PCIM30W15:

Contact 30 to Contact 28:	3.2mm [0.126 inch]
Contact 29 to Contact 28:	3.2mm [0.126 inch]
Contact 30 to Signal Contacts:	6.4mm [0.252 inch]
Contact 29 to Signal Contacts:	6.4mm [0.252 inch]
Contact 30 to Contact 29:	2.5mm [0.098 inch]
Contact 28 to Signal Contacts:	2.0mm [0.079 inch]

PCIM33W18:

Contact 28 to Signal Contacts:	2.0mm [0.079 inch]
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PCIM34W13:

Contact 34 to Contact 32:	3.2mm [0.126 inch]
Contact 33 to Contact 32:	3.2mm [0.126 inch]
Contact 34 to Signal Contacts:	6.4mm [0.252 inch]
Contact 33 to Signal Contacts:	6.4mm [0.252 inch]
Contact 34 to Contact 33:	2.5mm [0.098 inch]
Contact 32 to Signal Contacts:	2.0mm [0.079 inch]

PCIM37W16:

Contact 32 to Signal Contacts:	2.0mm [0.079 inch]
--------------------------------	--------------------

Working Voltage:

PCIM30W15:

Contacts 28 through 30:	1,000 V r.m.s.
Contacts 1 through 12:	500 V r.m.s.
Contacts 13 through 27:	333 V r.m.s.

PCIM33W18:

Contacts 1 through 12 and 28 through 33:	500 V r.m.s.
Contacts 13 through 27:	333 V r.m.s.

PCIM34W13:

Contacts 32 through 34:	1,000 V r.m.s.
Contacts 1 through 10:	500 V r.m.s.
Contacts 11 through 31:	333 V r.m.s.

PCIM37W16:

Contacts 1 through 12 and 32 through 37:	500 V r.m.s.
Contacts 13 through 31:	333 V r.m.s.

MECHANICAL CHARACTERISTICS:

Blind Mating System:

Male and female connector bodies provide "lead-in" for 1.3mm [0.050 inch] diametral misalignment.

Polarization:

Provided by connector body design.

Removable Contacts:

Install contact from rear of insulator; release from front of insulator. Size 16 and 22 female contacts feature "Closed Entry" design for highest reliability.

Removable Contact Retention in Connector Body:

Size 16 Contacts:	67 N [15 lbs.]
Size 22 Contacts:	27 N [6 lbs.]

Fixed Contacts:

Printed board terminations, both straight and right angle (90°). Size 16 female contacts feature "Closed Entry" design. Size 22 feature rugged "Open Entry" contact design. "Closed Entry" contacts available, consult Technical Sales.

**Fixed Contact Retention
in Connector Body:**

Size 16 Contacts: 45 N [10 lbs.]
Size 22 Contacts: 27 N [6 lbs.]

Resistance to Solder Heat: 260°C [500°F] for 10 seconds duration per IEC 512-6, Test 12e, 25-watt soldering iron.

Sequential Contact Mating System:

PCIM30W15: First mate contact 28 and last mate contact position 13.

PCIM33W18: Last mate contact position 13.

PCIM34W13: First mate contact 32 and last mate contact position 17.

PCIM37W16: Last mate contact position 17.

Consult Technical Sales for customer specified sequential mating.

**Safety "Recessed in
Insulator" Contacts:**

The following size 16 contacts are recessed 5mm [0.197 inch] below the face of the female connector insulator per safety requirements.

PCIM30W15: Contact positions 29 and 30.

PCIM33W18: None

PCIM34W13: Contact positions 33 and 34.

PCIM37W16: None

Compliant Terminations:

Size 16 and 22 contacts are available with Compliant Contact Terminations. Average insertion and extraction forces of size 16 contacts are 22N (5 lbs.) per contact.

Printed Board Mounting:

Mounting holes provided in connector body for printed board mounting. Self-tapping screws are available.

Mechanical Operations:

250 couplings, minimum.

CLIMATIC CHARACTERISTICS:

Working Temperature: -55°C to +125°C.

U.L. Recognized File #E49351

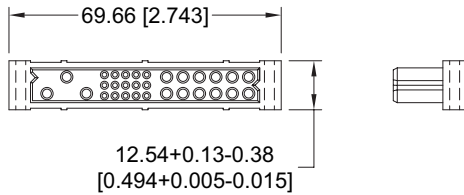
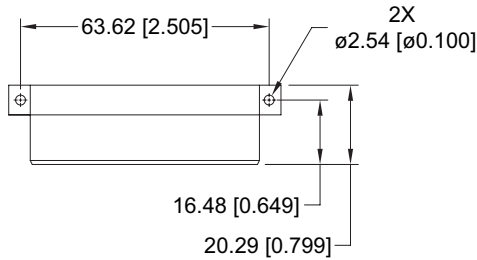




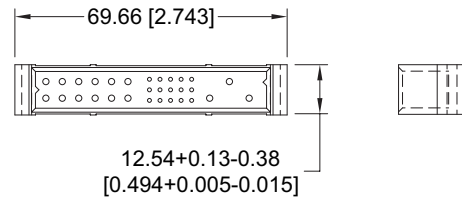
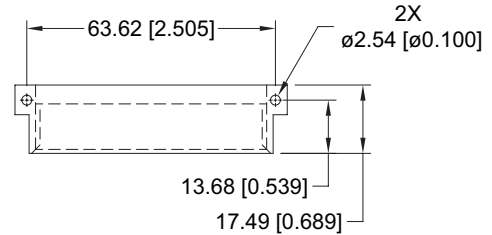
PCIM CONNECTOR OUTLINE DIMENSIONS

RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR

FEMALE CONNECTOR

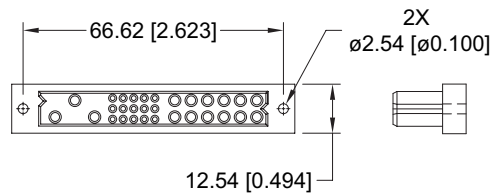
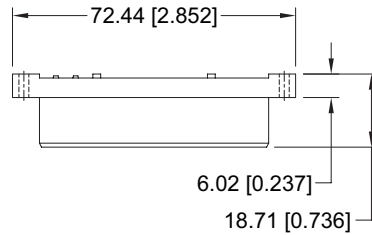


MALE CONNECTOR

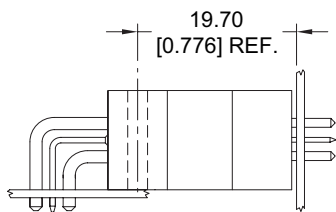


STRAIGHT BOARD MOUNT CONNECTOR

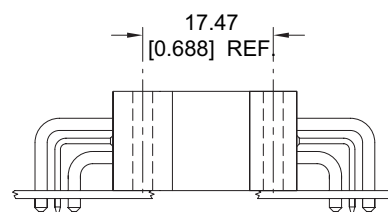
FEMALE CONNECTOR



PCIM CONNECTOR MATING DIMENSIONS (FULLY MATED)



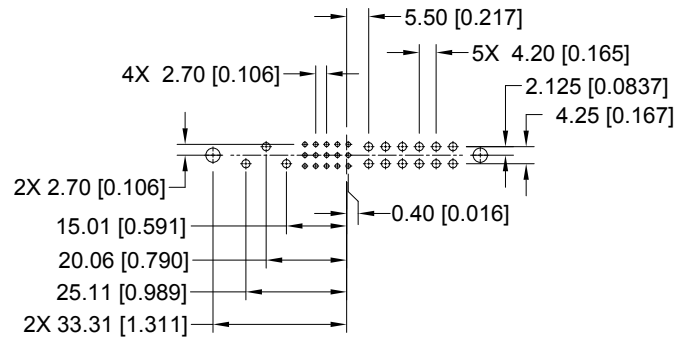
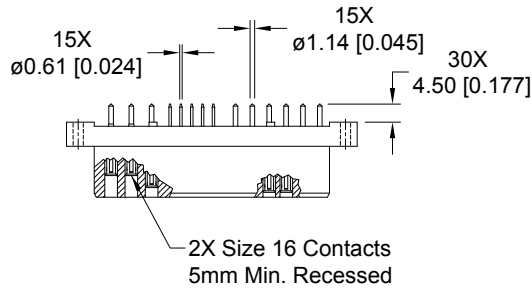
Right Angle (90°) Board
Mount Male to Straight
Board Mount or Panel
Mount Female



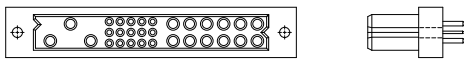
Right Angle (90°)
Board Mount Male to
Right Angle (90°)
Board Mount Female

FEMALE STRAIGHT SOLDER CONNECTOR CODE 3

STANDARD PART NUMBER
PCIM30W15F300A1



CONTACT HOLE PATTERN

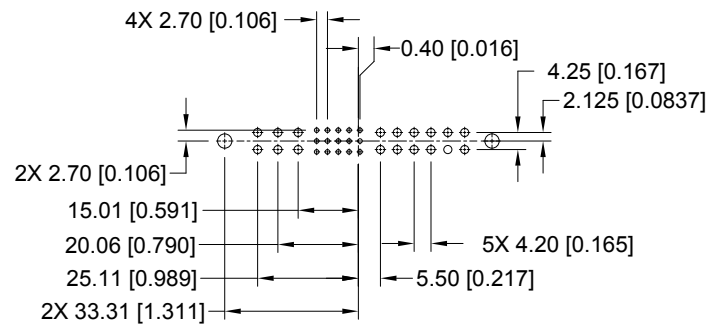
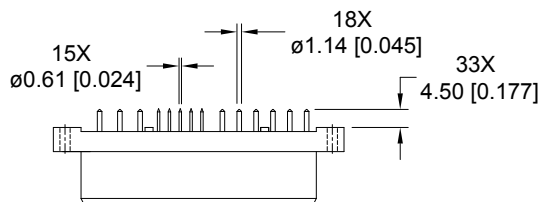


CONNECTOR DIMENSIONS

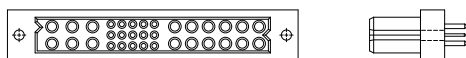
Note: See below for suggested printed board hole sizes.

FEMALE STRAIGHT SOLDER CONNECTOR CODE 3

STANDARD PART NUMBER
PCIM33W18F300A1



CONTACT HOLE PATTERN



CONNECTOR DIMENSIONS

SUGGESTED PRINTED BOARD HOLE SIZES:

- Suggest $\varnothing 1.00$ [0.039] holes for size 22 contact holes.
- Suggest $\varnothing 1.60$ [0.063] holes for size 16 contact holes.
- Suggest $\varnothing 3.56 \pm 0.08$ [0.140 \pm 0.003] holes for connector mounting holes.



STRAIGHT SOLDER CONNECTOR, FEMALE

FEMALE STRAIGHT SOLDER CONNECTOR WITH A.C. PASS-THROUGH

CODE 3 WITH MOS* -246.10

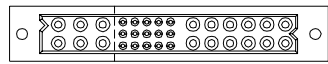
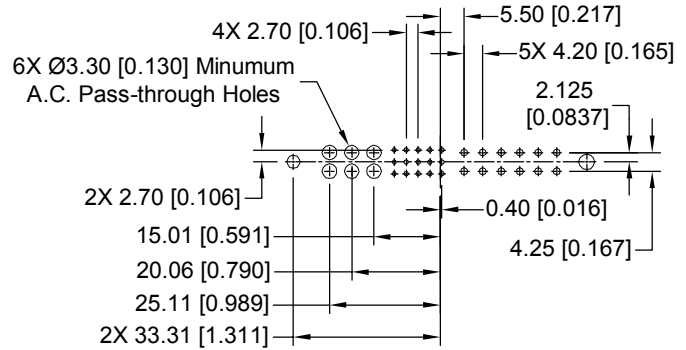
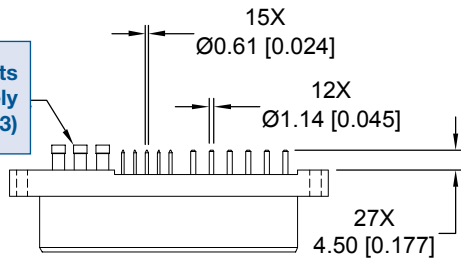
CRIMP CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

LOW PROFILE PART NUMBER

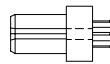
PCIM33W18F300A1-246.10

For MOS descriptions,
see chart on pages 107-108.

Crimp contacts
ordered separately
(see pages 102-103)



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

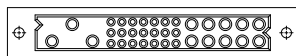
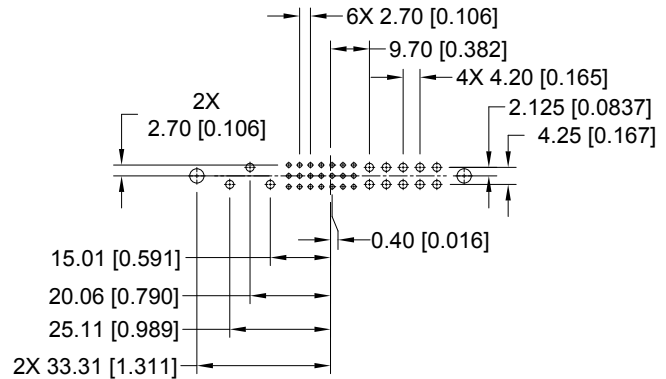
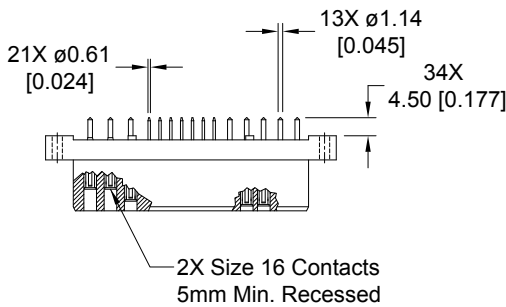
Note: See below for suggested printed board hole sizes.

FEMALE STRAIGHT SOLDER CONNECTOR

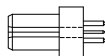
CODE 3

STANDARD PART NUMBER

PCIM34W13F300A1



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

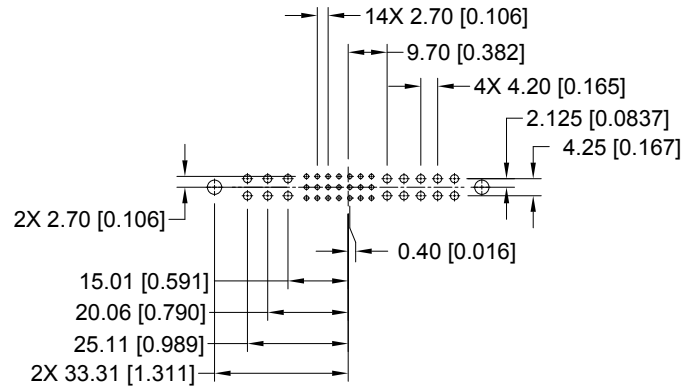
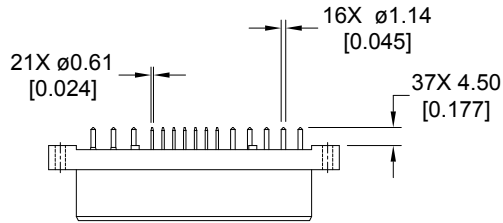
Suggest Ø1.00[0.039] holes for size 22 contact holes.

Suggest Ø1.60 [0.063] holes for size 16 contact holes.

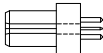
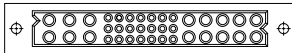
Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.

FEMALE STRAIGHT SOLDER CONNECTOR
CODE 3

STANDARD PART NUMBER
PCIM37W16F300A1



CONTACT HOLE PATTERN



CONNECTOR DIMENSIONS

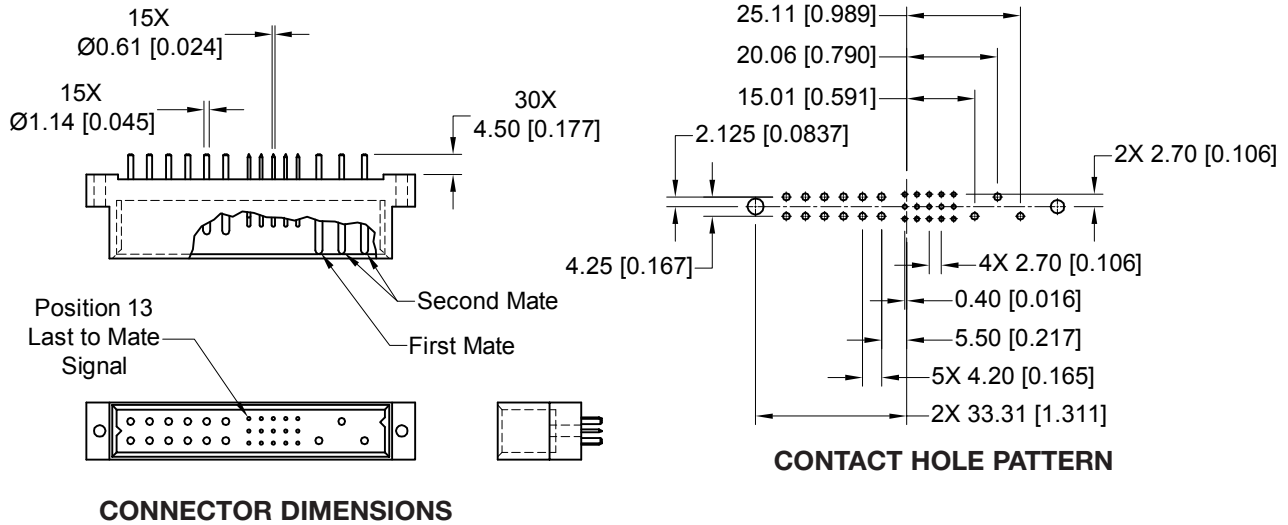
SUGGESTED PRINTED BOARD HOLE SIZES:

- Suggest $\text{Ø}1.00[0.039]$ holes for size 22 contact holes.
- Suggest $\text{Ø}1.60 [0.063]$ holes for size 16 contact holes.
- Suggest $\text{Ø}3.56\pm0.08 [0.140\pm0.003]$ holes for connector mounting holes.



MALE STRAIGHT SOLDER CONNECTOR CODE 3

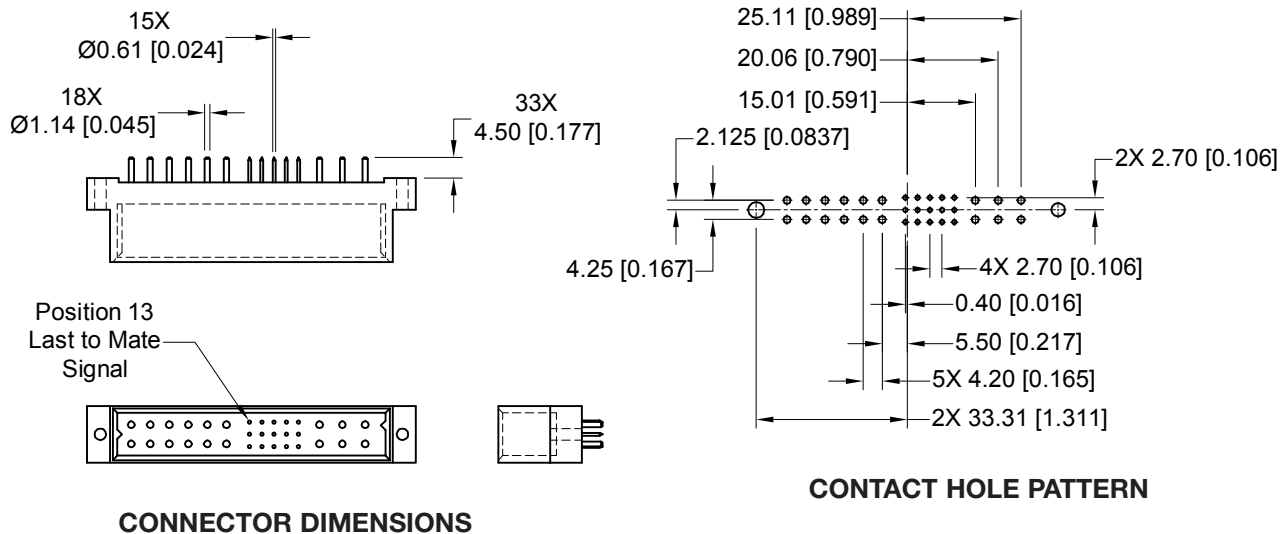
STANDARD PART NUMBER
PCIM30W15M300A1



Note: See below for suggested printed board hole sizes.

MALE STRAIGHT SOLDER CONNECTOR CODE 3

STANDARD PART NUMBER
PCIM33W18M300A1



SUGGESTED PRINTED BOARD HOLE SIZES:

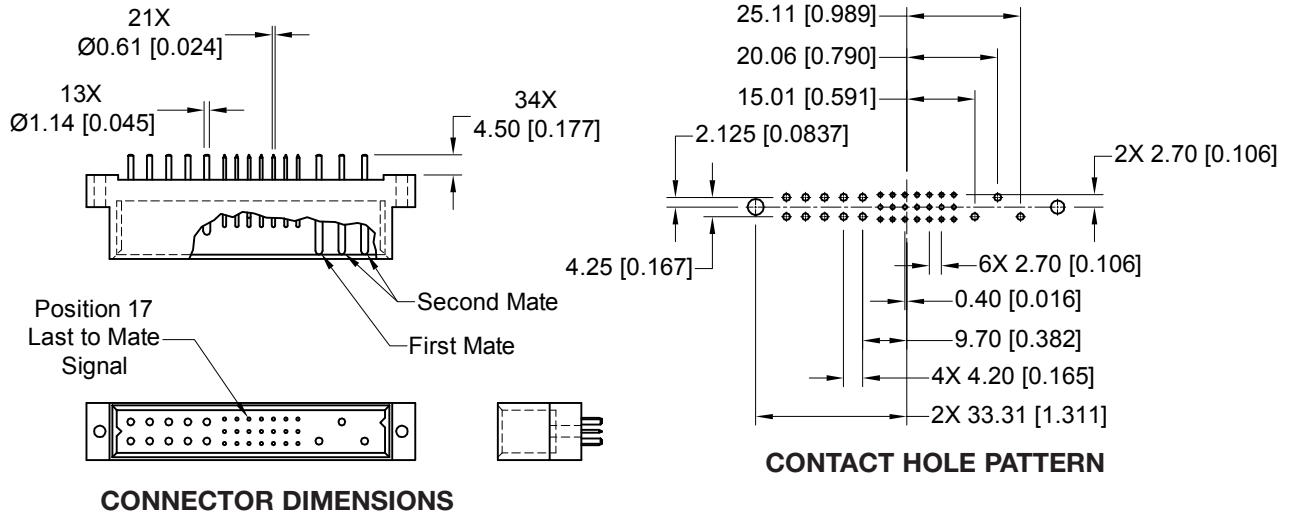
Suggest $\text{Ø}1.00 [0.039]$ holes for size 22 contact holes.

Suggest $\text{Ø}1.60 [0.063]$ holes for size 16 contact holes.

Suggest $\text{Ø}3.56\pm0.08 [0.140\pm0.003]$ holes for connector mounting holes.

**MALE STRAIGHT SOLDER CONNECTOR
CODE 3**

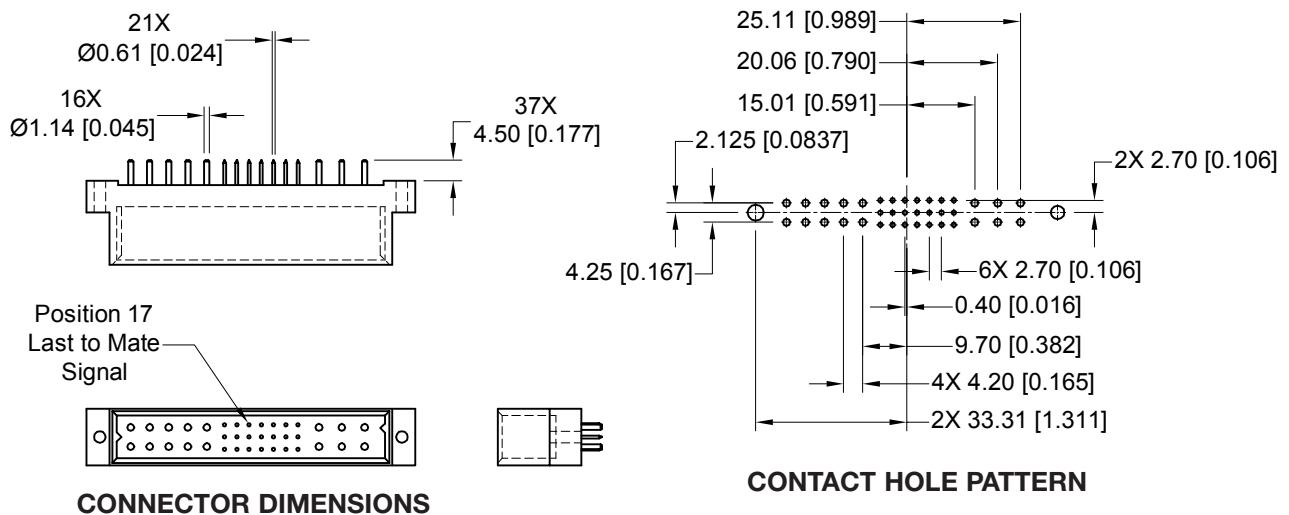
STANDARD PART NUMBER
PCIM34W13M300A1



Note: See below for suggested printed board hole sizes.

**MALE STRAIGHT SOLDER CONNECTOR
CODE 3**

STANDARD PART NUMBER
PCIM37W16M300A1



SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.00 [0.039] holes for size 22 contact holes.
Suggest Ø1.60 [0.063] holes for size 16 contact holes.
Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.

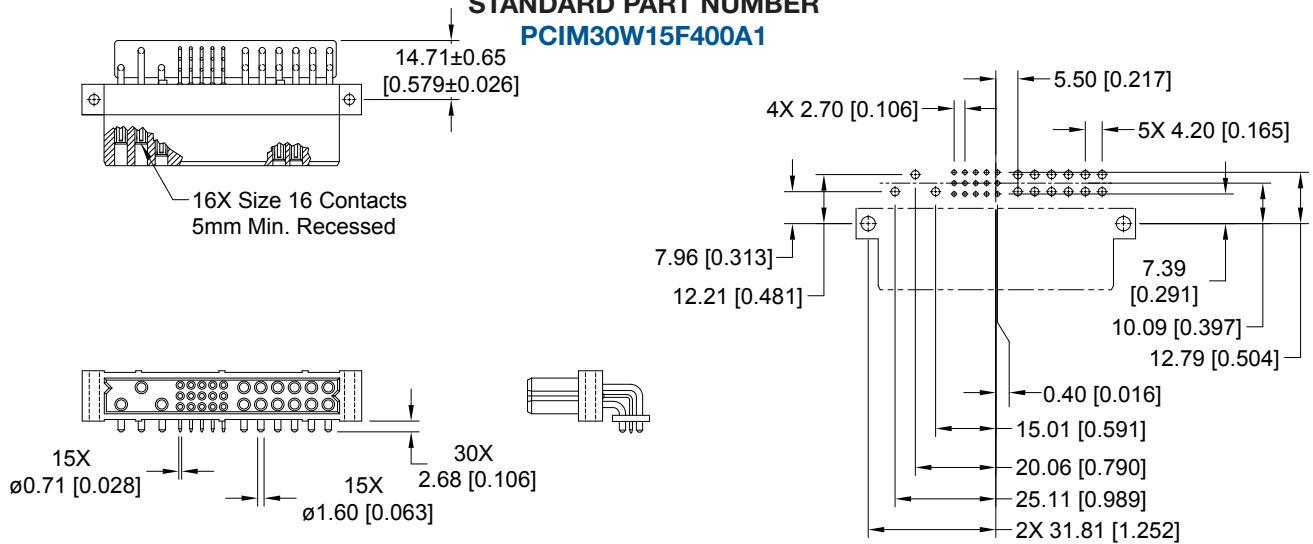


RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR, FEMALE

FEMALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR CODE 4

STANDARD PART NUMBER

PCIM30W15F400A1



CONNECTOR DIMENSIONS

CONTACT HOLE PATTERN

Note: See below for suggested printed board hole sizes.

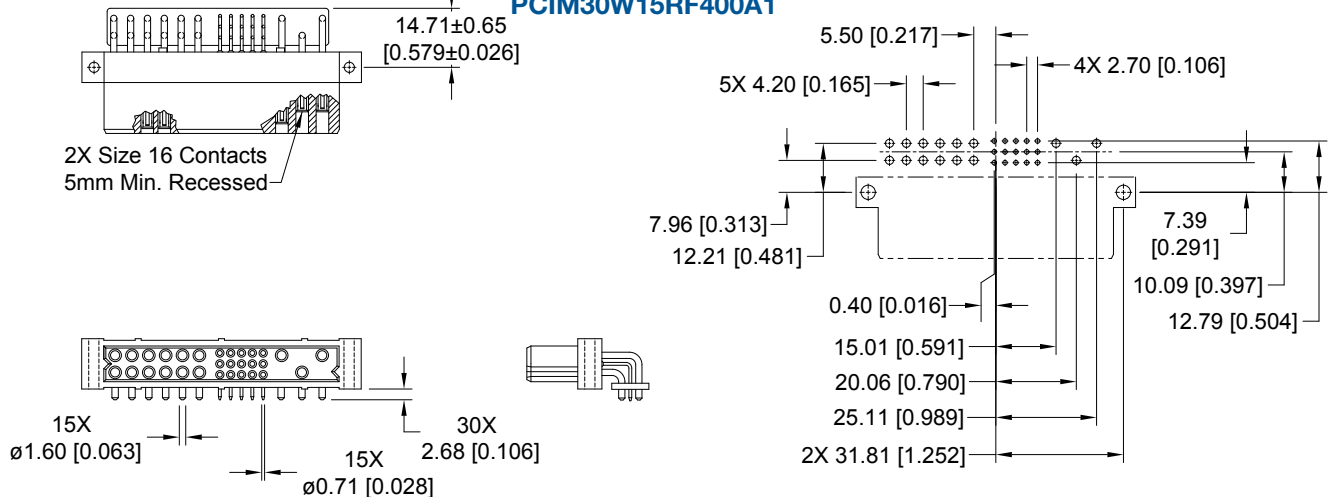
INVERTED PA

PCIM30W15F*

FEMALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR CODE 4

PART NUMBER FOR INVERTED TERMINATION

PCIM30W15RF400A1



CONNECTOR DIMENSIONS

CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.14 [0.045] holes for size 22 contact holes.

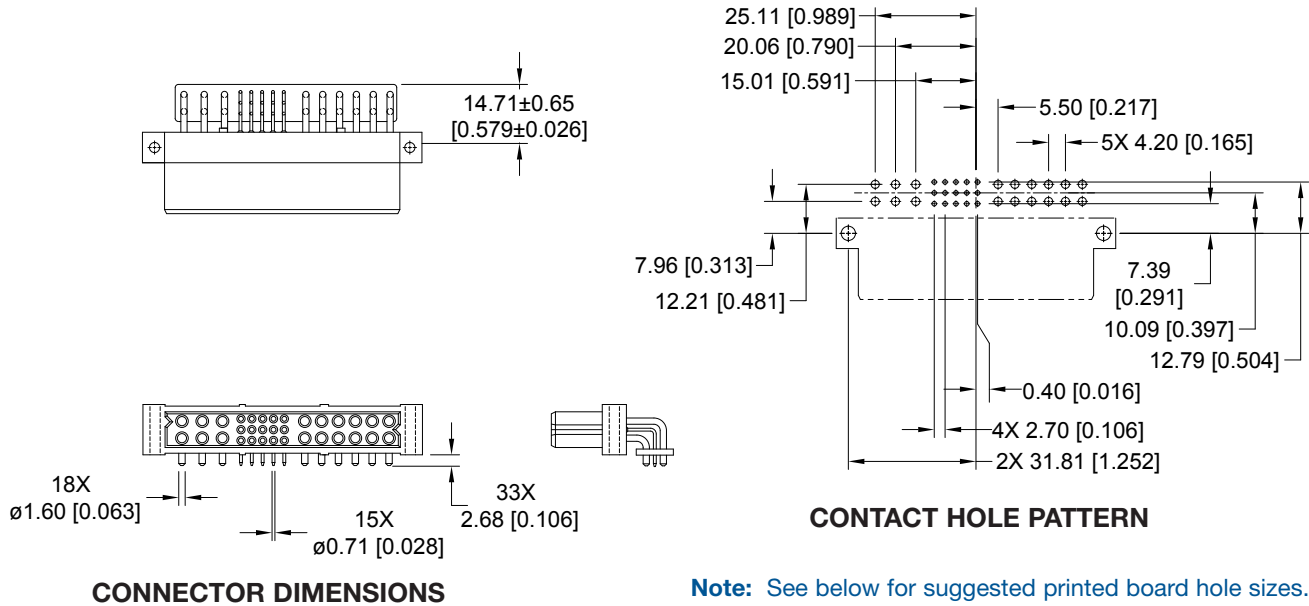
Suggest Ø2.03 [0.080] holes for size 16 contact holes.

Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.

**FEMALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTORS
CODE 4**

STANDARD PART NUMBER

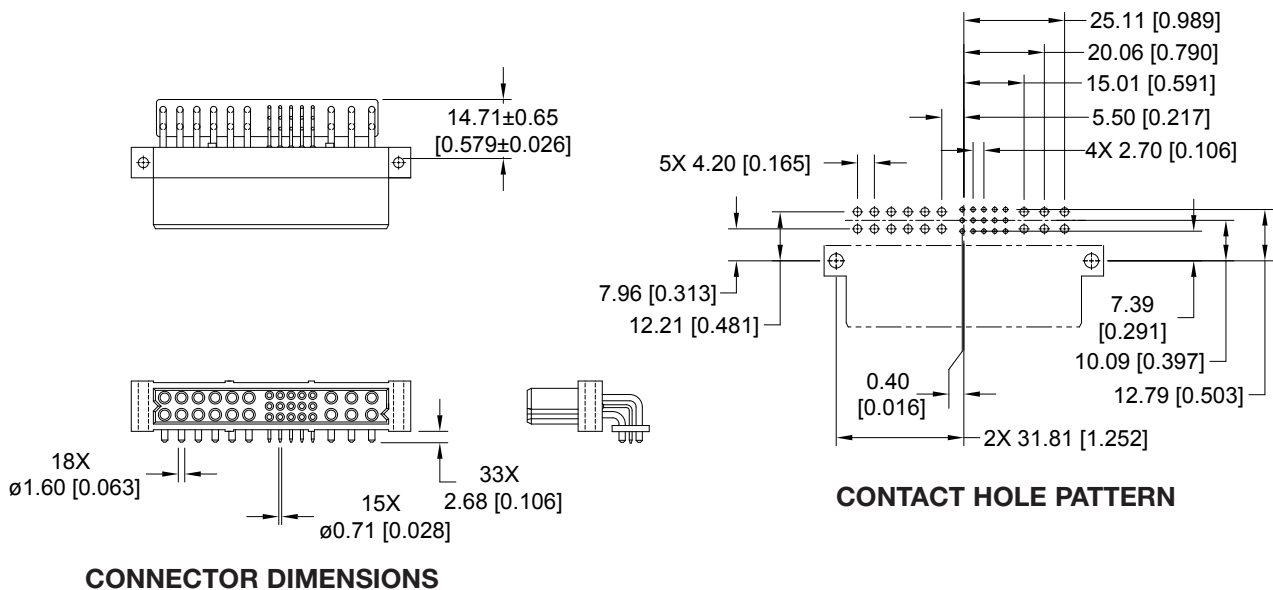
PCIM33W18F400A1



**FEMALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTORS
CODE 4**

PART NUMBER FOR INVERTED TERMINATION

PCIM33W18RF400A1



SUGGESTED PRINTED BOARD HOLE SIZES:

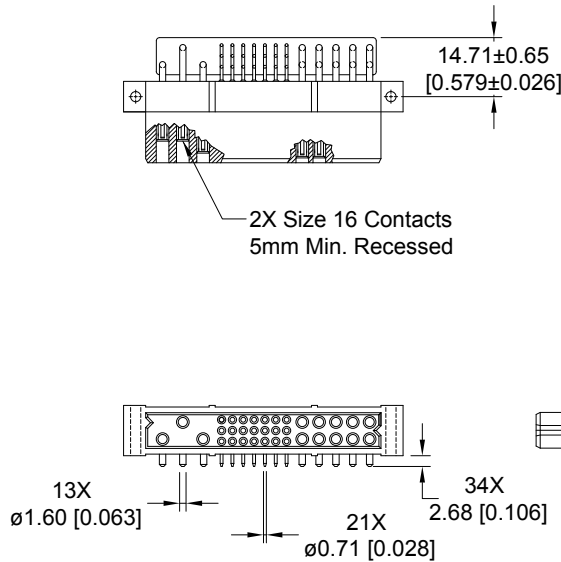
- Suggest $\phi 1.14$ [0.045] holes for size 22 contact holes.
- Suggest $\phi 2.03$ [0.080] holes for size 16 contact holes.
- Suggest $\phi 3.56 \pm 0.08$ [0.140 ± 0.003] holes for connector mounting holes.



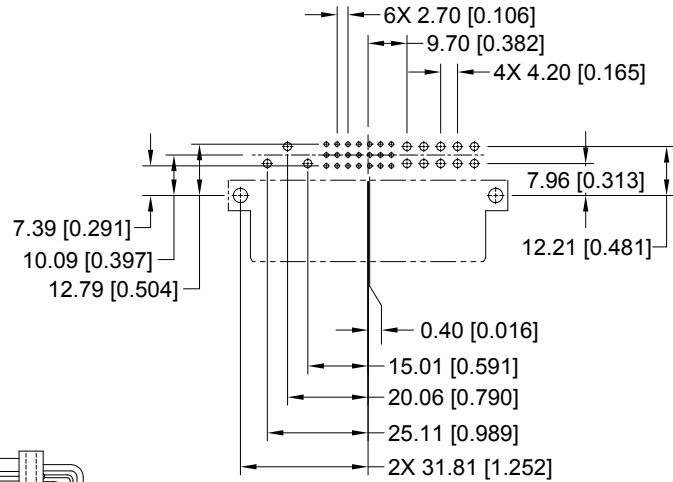
RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR, FEMALE

FEMALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR CODE 4

STANDARD PART NUMBER
PCIM34W13F400A1



CONNECTOR DIMENSIONS

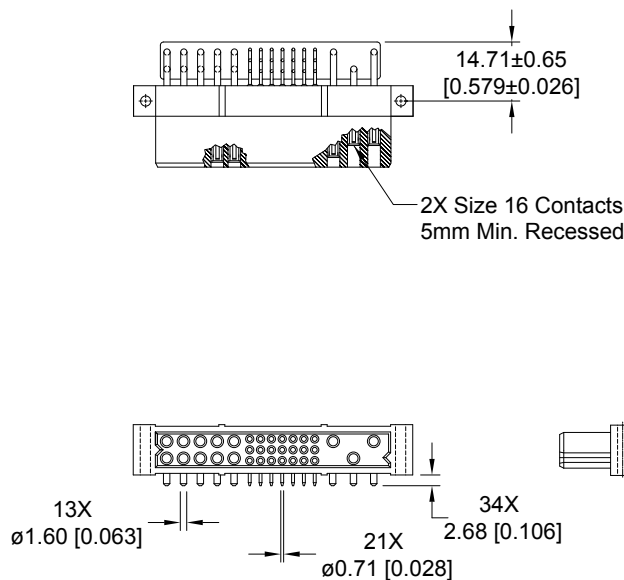


CONTACT HOLE PATTERN

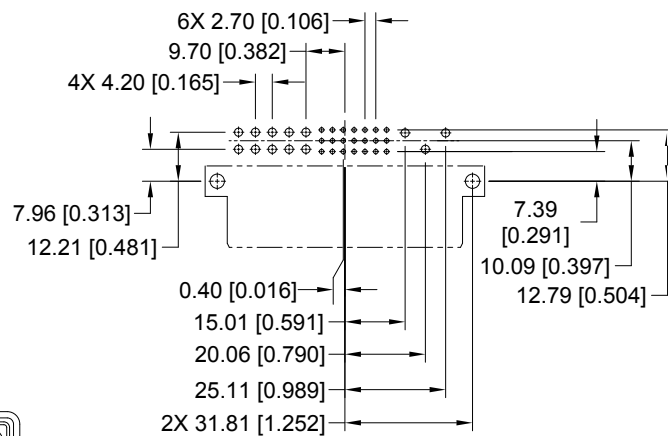
Note: See below for suggested printed board hole sizes.

FEMALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR CODE 4

PART NUMBER FOR INVERTED TERMINATION
PCIM34W13RF400A1



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

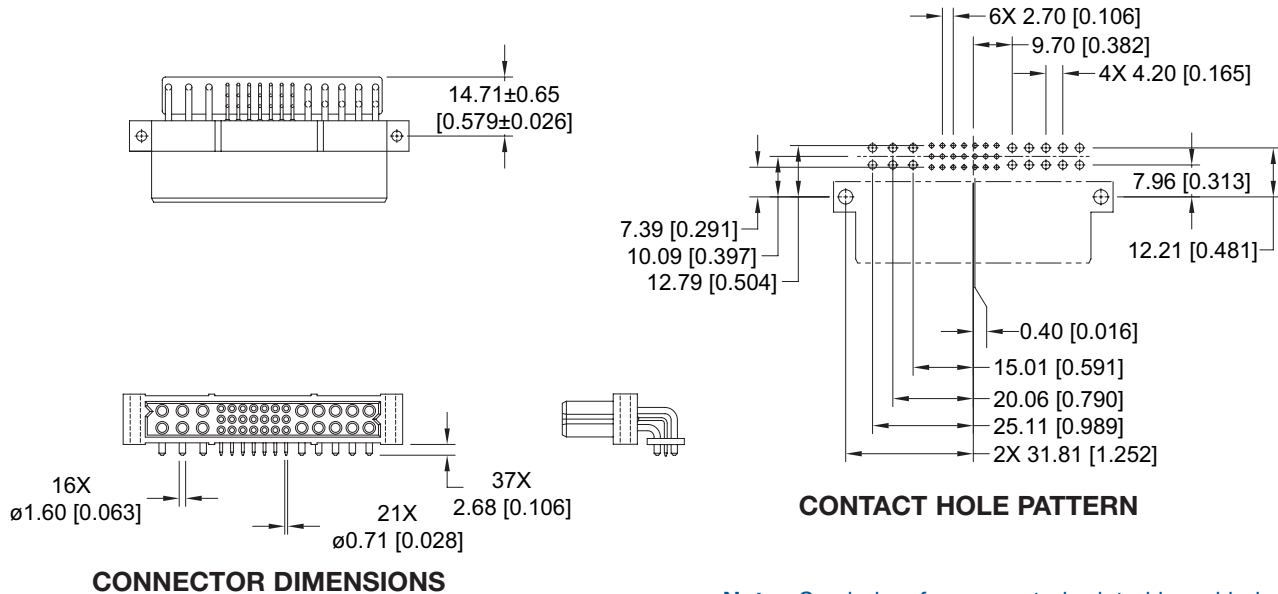
Suggest Ø1.14 [0.045] holes for size 22 contact holes.

Suggest Ø2.03 [0.080] holes for size 16 contact holes.

Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.

**FEMALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR
CODE 4**

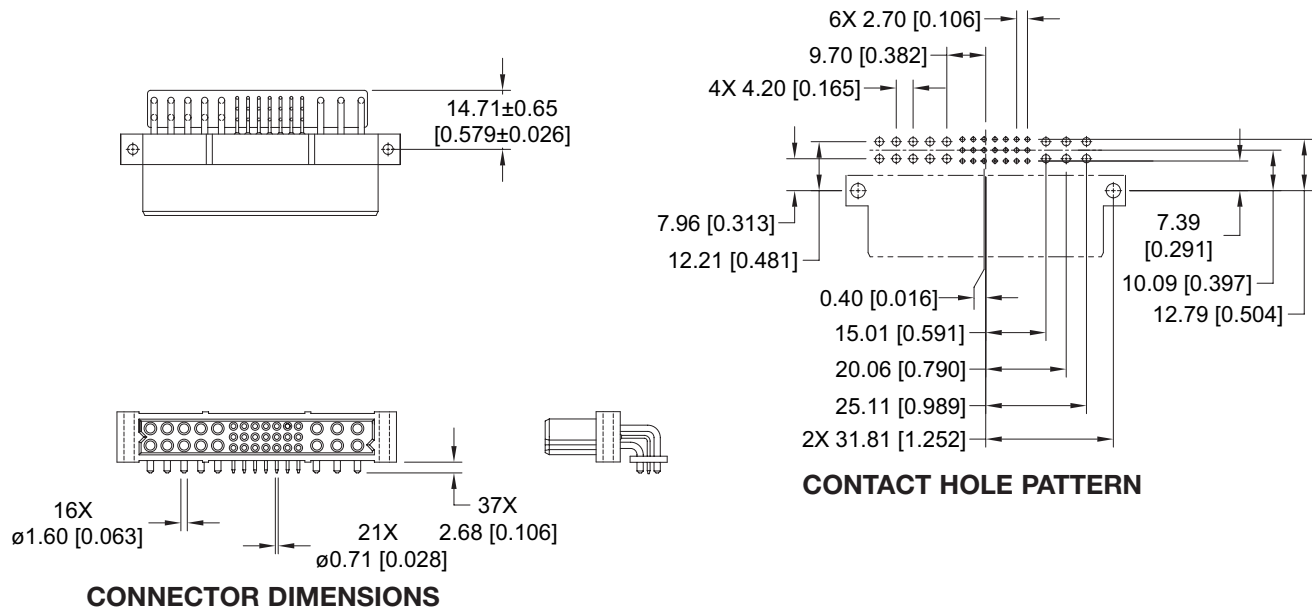
**STANDARD PART NUMBER
PCIM37W16F400A1**



Note: See below for suggested printed board hole sizes.

**FEMALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR
CODE 4**

**PART NUMBER FOR INVERTED TERMINATION
PCIM37W16RF400A1**



SUGGESTED PRINTED BOARD HOLE SIZES:

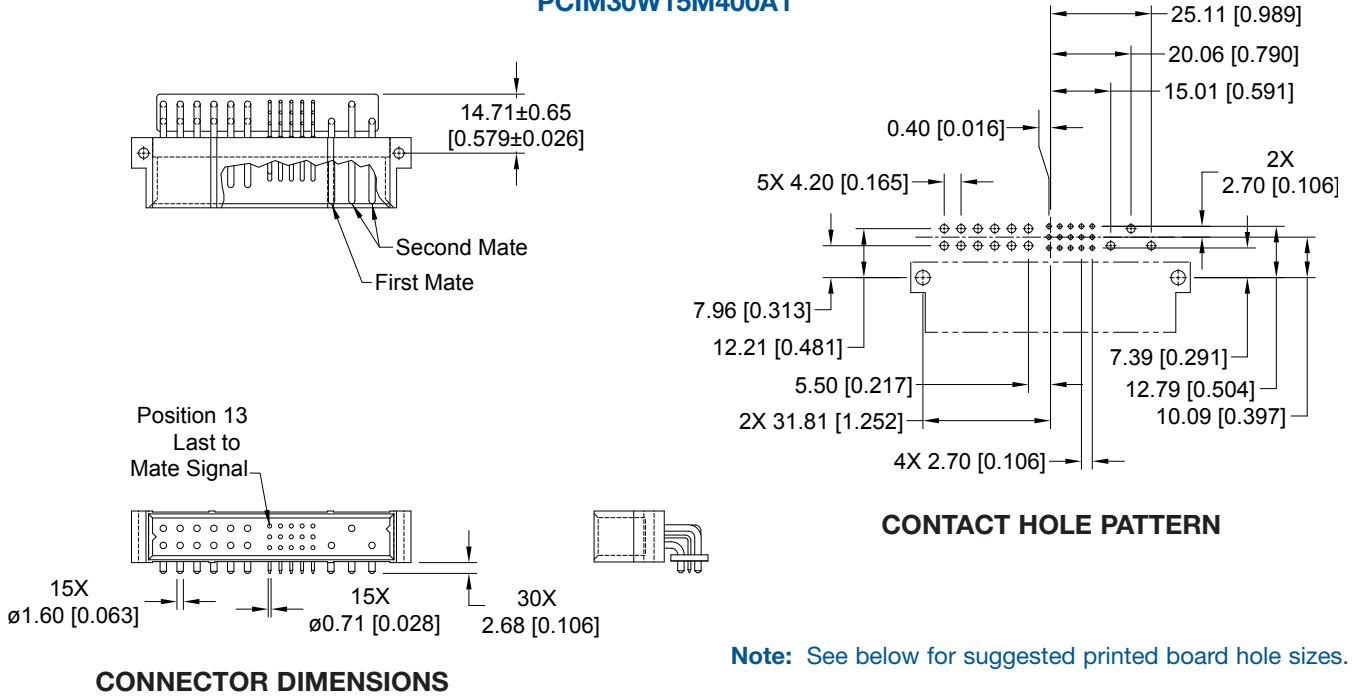
- Suggest Ø1.14 [0.045] holes for size 22 contact holes.
- Suggest Ø2.03 [0.080] holes for size 16 contact holes.
- Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.



RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR, MALE

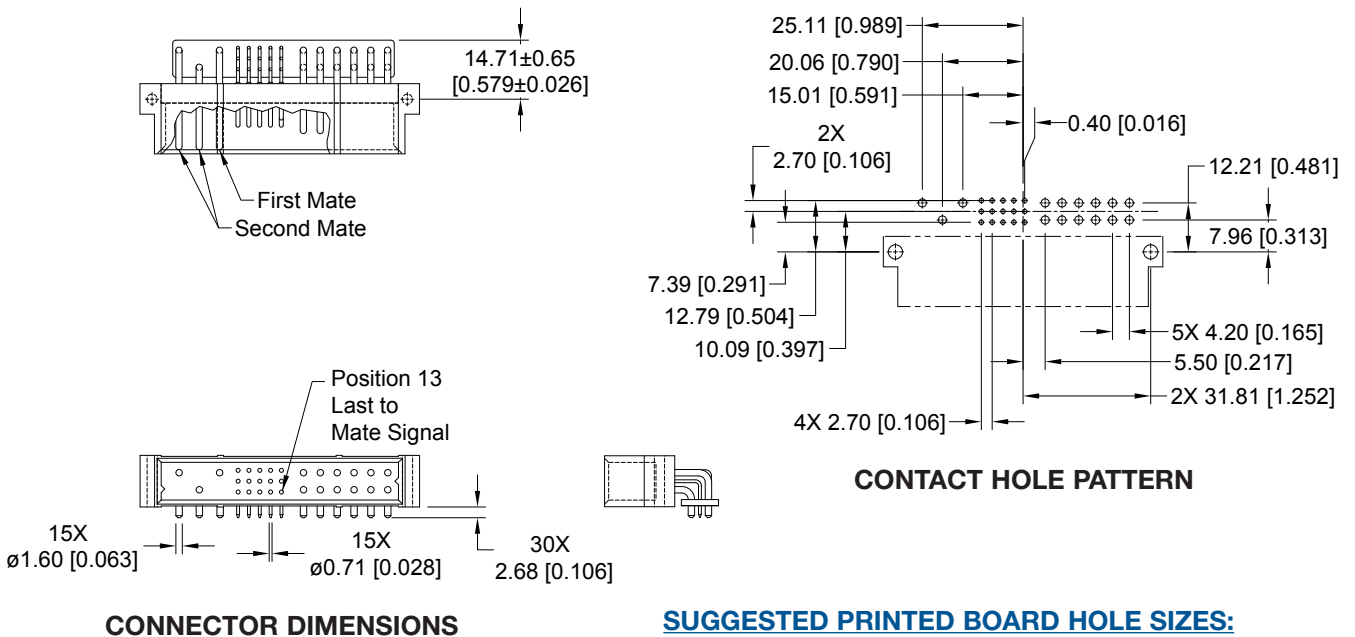
MALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR CODE 4

STANDARD PART NUMBER
PCIM30W15M400A1



MALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR CODE 4

PART NUMBER FOR INVERTED TERMINATION
PCIM30W15RM400A1



SUGGESTED PRINTED BOARD HOLE SIZES:

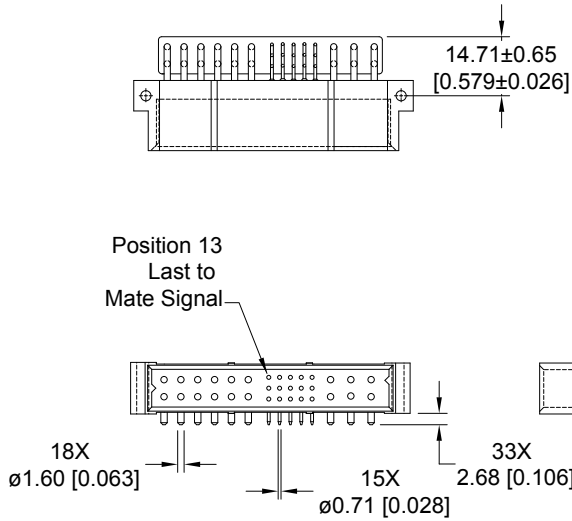
Suggest Ø1.14 [0.045] holes for size 22 contact holes.

Suggest Ø2.03 [0.080] holes for size 16 contact holes.

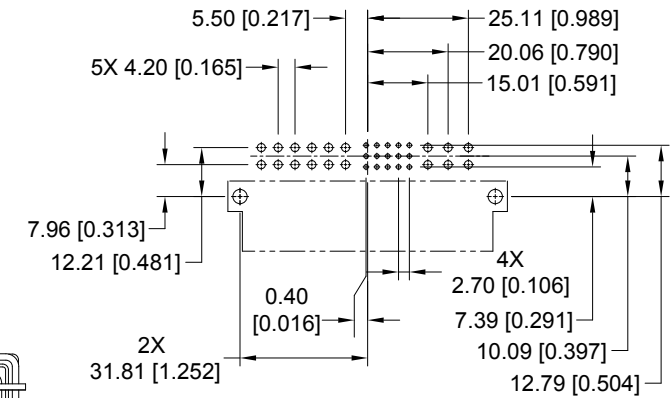
Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.

**MALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR
CODE 4**

**STANDARD PART NUMBER:
PCIM33W18M400A1**



CONNECTOR DIMENSIONS

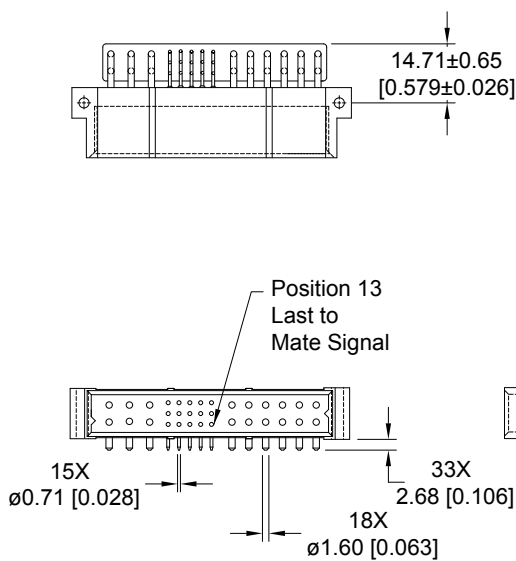


CONTACT HOLE PATTERN

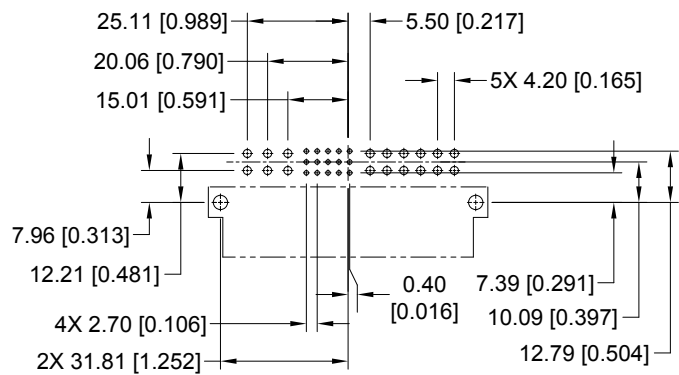
Note: See below for suggested printed board hole sizes.

**MALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR
CODE 4**

**PART NUMBER FOR INVERTED TERMINATION
PCIM33W18RM400A1**



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

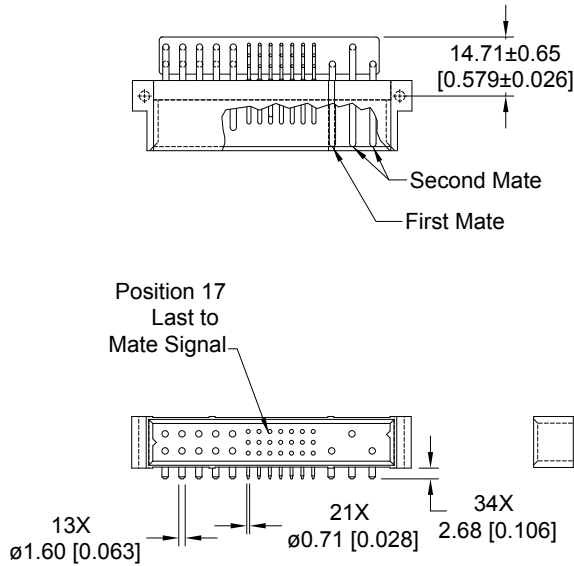
Suggest $\varnothing 1.14 [0.045]$ holes for size 22 contact holes.
Suggest $\varnothing 2.03 [0.080]$ holes for size 16 contact holes.
Suggest $\varnothing 3.56 \pm 0.08 [0.140 \pm 0.003]$ holes for connector mounting holes.



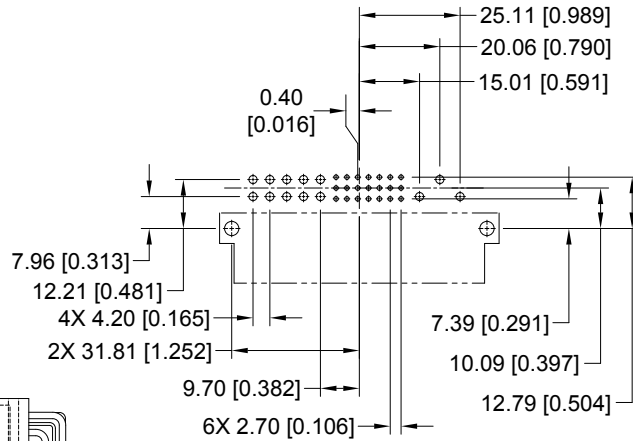
RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR, MALE

MALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR CODE 4

STANDARD PART NUMBER:
PCIM34W13M400A1



CONNECTOR DIMENSIONS

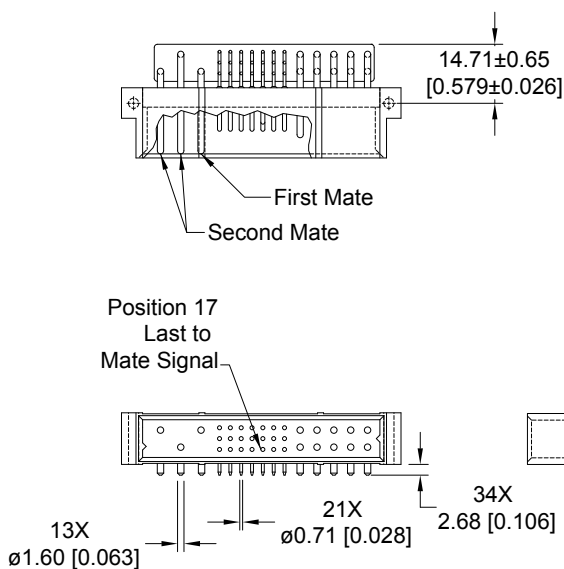


CONTACT HOLE PATTERN

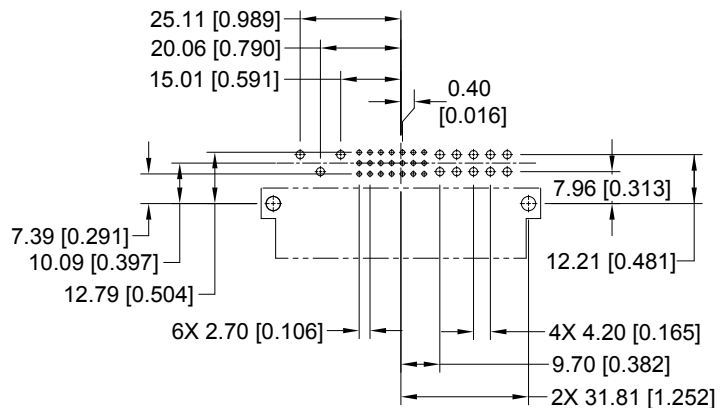
Note: See below for suggested printed board hole sizes.

MALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR CODE 4

PART NUMBER FOR INVERTED TERMINATION:
PCIM34W13RM400A1



CONNECTOR DIMENSIONS



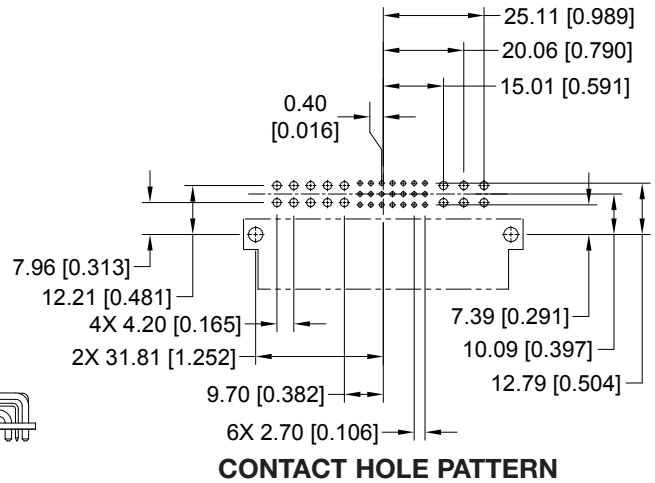
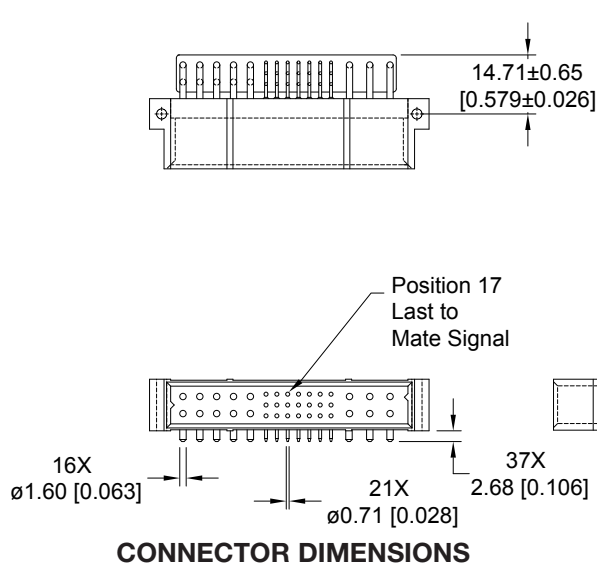
CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.14 [0.045] holes for size 22 contact holes.
Suggest Ø2.03 [0.080] holes for size 16 contact holes.
Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.

**MALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR
CODE 4**

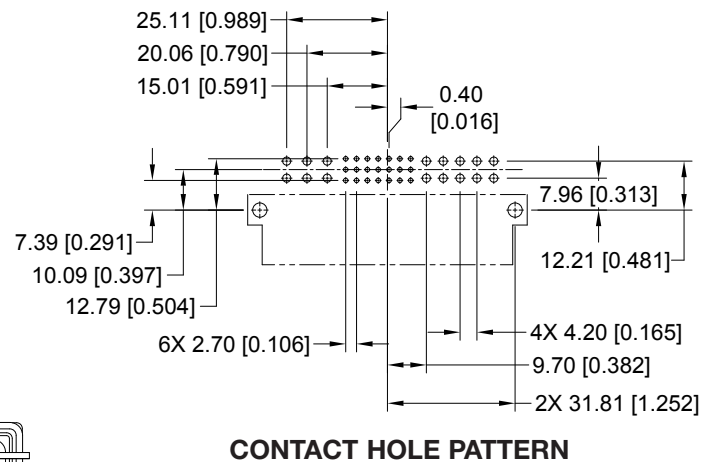
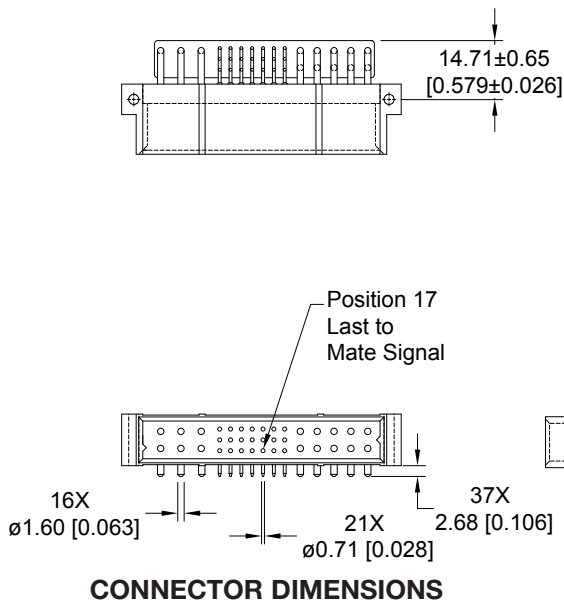
**STANDARD PART NUMBER
PCIM37W16M400A1**



Note: See below for suggested printed board hole sizes.

**MALE RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR
CODE 4**

**PART NUMBER FOR INVERTED TERMINATION
PCIM37W16RM400A1**



SUGGESTED PRINTED BOARD HOLE SIZES:

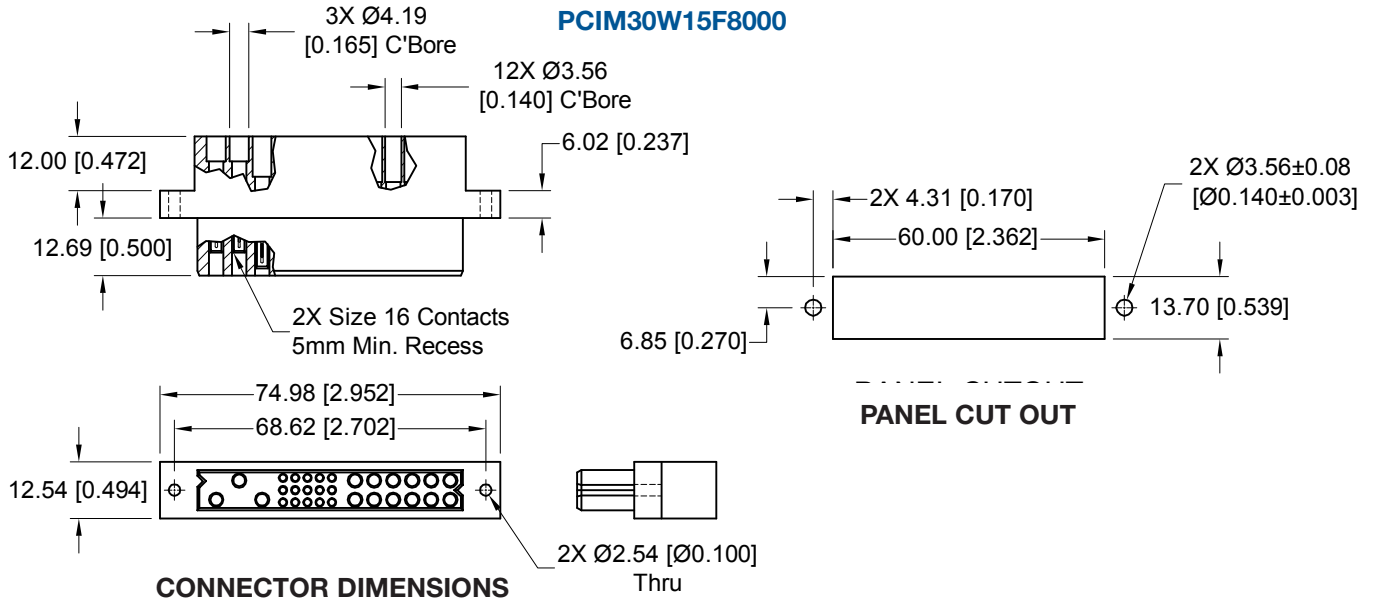
- Suggest Ø1.14 [0.045] holes for size 22 contact holes.
- Suggest Ø2.03 [0.080] holes for size 16 contact holes.
- Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.



FEMALE PANEL MOUNT CRIMP CONTACT CONNECTOR CODE 8

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

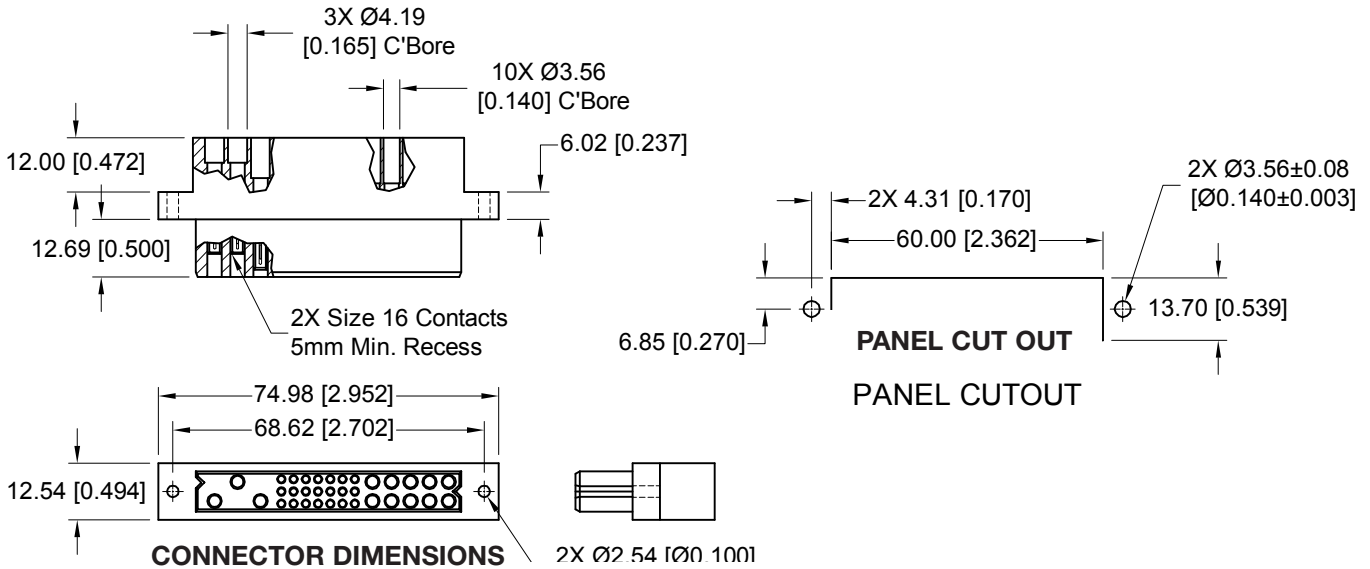
STANDARD PART NUMBER
PCIM30W15F8000



FEMALE PANEL MOUNT CRIMP CONTACT CONNECTOR CODE 8

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

STANDARD PART NUMBER
PCIM33W18F8000



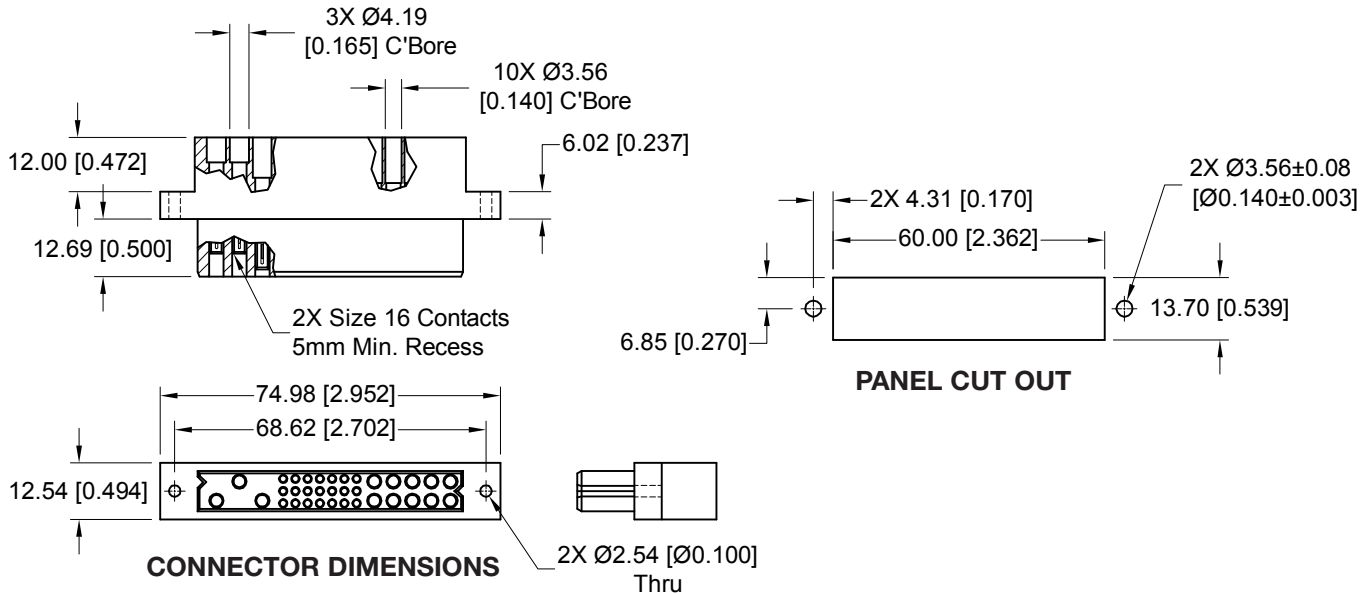
For information regarding removable contacts, see Removable Contact section, pages 102-103.

**FEMALE PANEL MOUNT CRIMP CONTACT CONNECTOR
CODE 8**

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

STANDARD PART NUMBER

PCIM34W13F8000

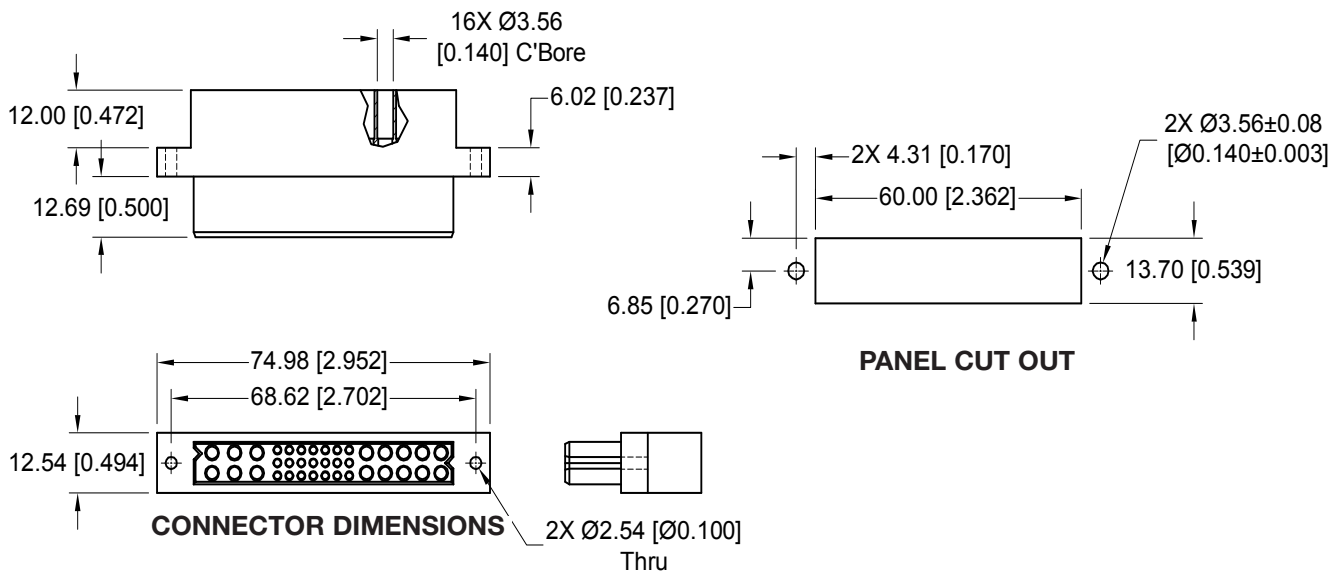


**FEMALE PANEL MOUNT CRIMP CONTACT CONNECTOR
CODE 8**

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

STANDARD PART NUMBER

PCIM37W16F8000



For information regarding removable contacts, see Removable Contact section, pages 102-103.



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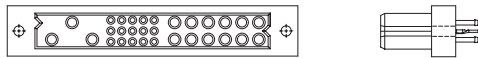
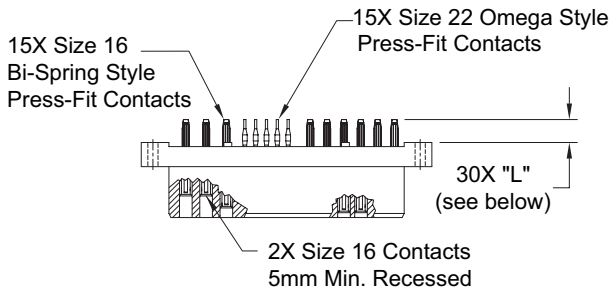
COMPLIANT PRESS-FIT BOARD MOUNT CONNECTOR, FEMALE

Compact
Power
Connectors

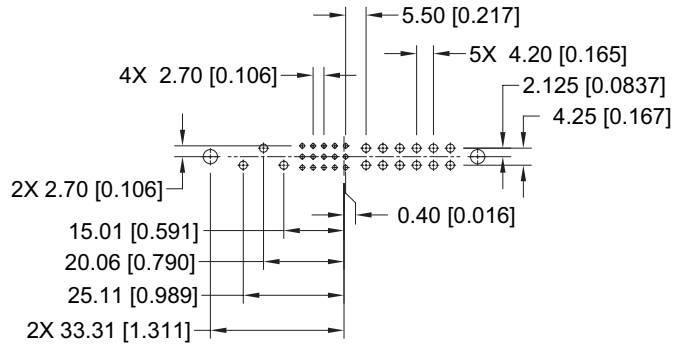
FEMALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER
PCIM30W15F9300A1
PCIM30W15F9400A1

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

CONTACT TAIL LENGTH

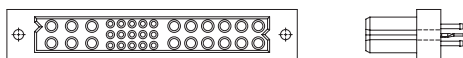
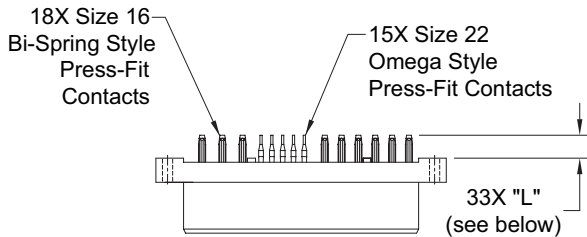
Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]

Note: See below for suggested printed board hole sizes, press-fit connector installation tools, and mounting screw options.

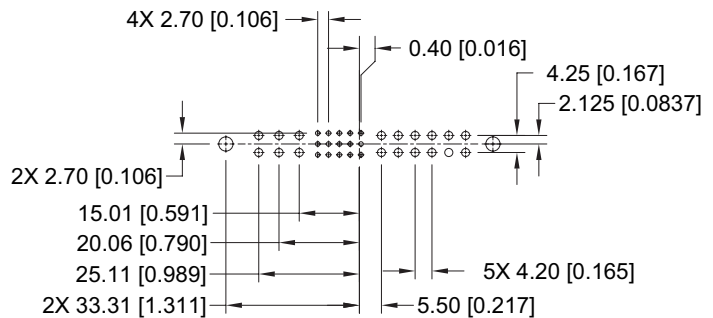
FEMALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER
PCIM33W18F9300A1
PCIM33W18F9400A1

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

CONTACT TAIL LENGTH

Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest $\varnothing 3.56 \pm 0.08$ [0.140 \pm 0.003] holes for connector mounting holes.

NOTE: See page 105 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.

For press-fit connector installation tools, see pages 105-106.

For mounting screw options, see page 105.



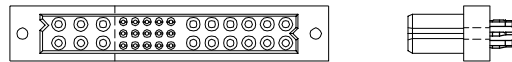
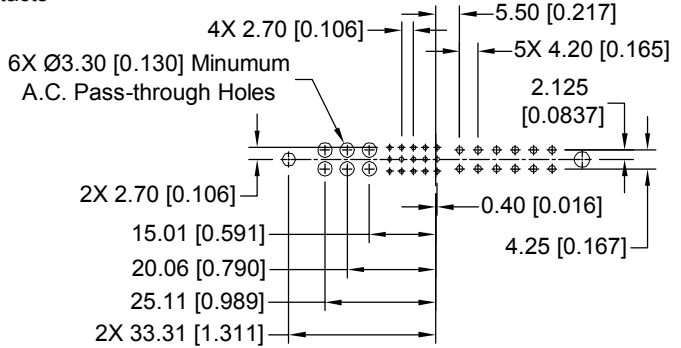
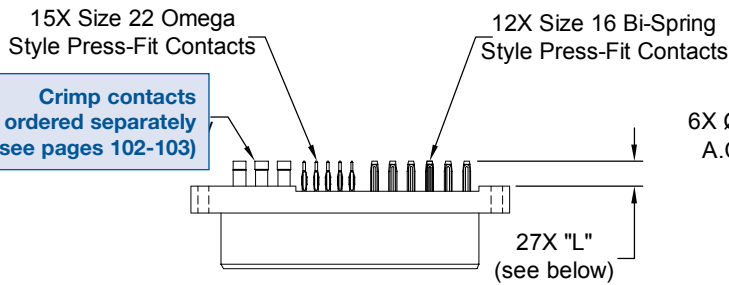
FEMALE COMPLIANT PRESS-FIT CONNECTOR WITH A.C. PASS-THROUGH CODE 93 OR 94 WITH MOS* -246.10

CRIMP CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

* For MOS descriptions,
see chart on pages 107-108.

LOW PROFILE PART NUMBER
PCIM33W18F9300A1-246.10
PCIM33W18F9400A1-246.10

Positronic recommends the practice
of using mounting hardware to secure
connector to printed circuit board.



CONNECTOR DIMENSIONS

CONTACT HOLE PATTERN

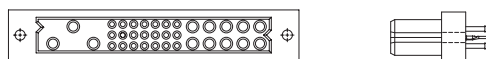
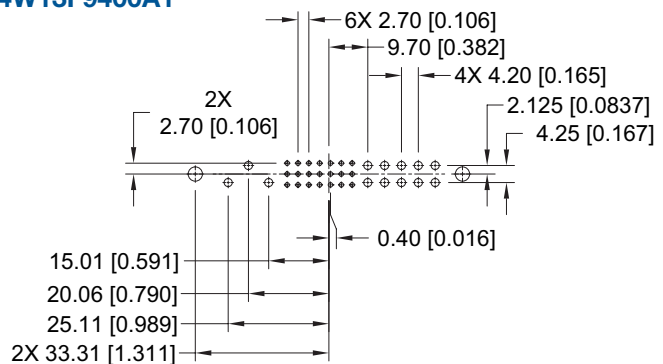
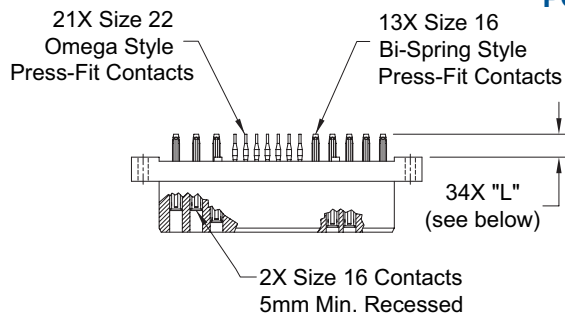
CONTACT TAIL LENGTH		
Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]

Note: See below for suggested printed board hole sizes, press-fit connector installation tools, and mounting screw options.

FEMALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER
PCIM34W13F9300A1
PCIM34W13F9400A1

Positronic recommends the practice
of using mounting hardware to secure
connector to printed circuit board.



CONNECTOR DIMENSIONS

CONTACT HOLE PATTERN

CONTACT TAIL LENGTH		
Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest $\text{Ø}3.56 \pm 0.08$ [0.140 ± 0.003] holes for connector mounting holes.

NOTE: See page 105 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.

For press-fit connector installation tools, see pages 105-106.

For mounting screw options, see page 105.

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.



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COMPLIANT PRESS-FIT BOARD MOUNT CONNECTOR, FEMALE

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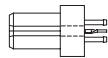
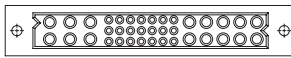
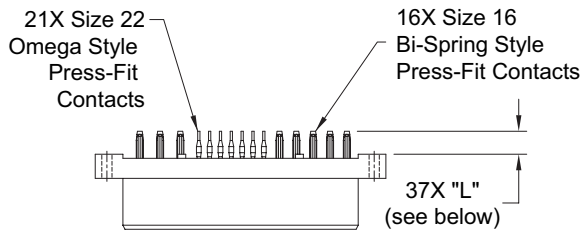
FEMALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER

PCIM37W16F9300A1

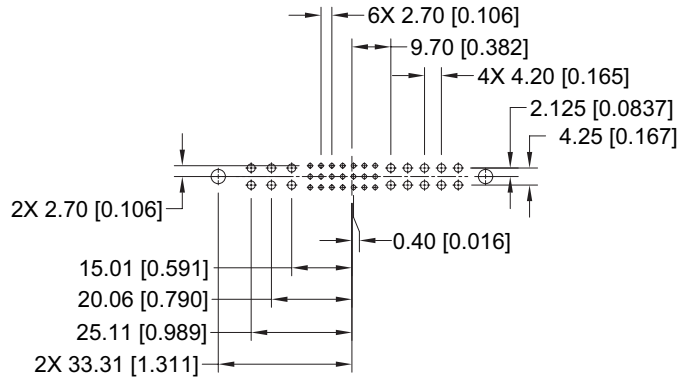
PCIM37W16F9400A1

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



CONNECTOR DIMENSIONS

CONTACT TAIL LENGTH		
Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest $\varnothing 3.56 \pm 0.08$ [0.140 \pm 0.003] holes for connector mounting holes.

NOTE: See page 105 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.

For press-fit connector installation tools, see pages 105-106.

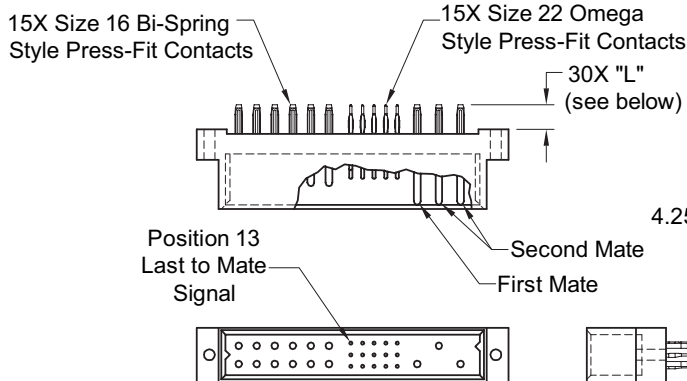
For mounting screw options, see page 105.



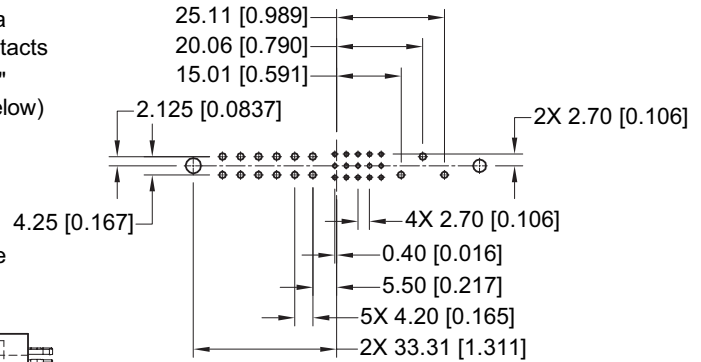
MALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER
PCIM30W15M9300A1
PCIM30W15M9400A1

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

CONTACT TAIL LENGTH		
Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]

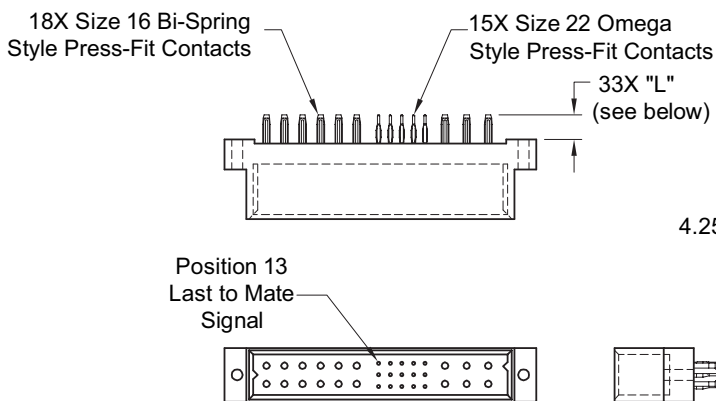
Note: See below for suggested printed board hole sizes, press-fit connector installation tools, and mounting screw options.



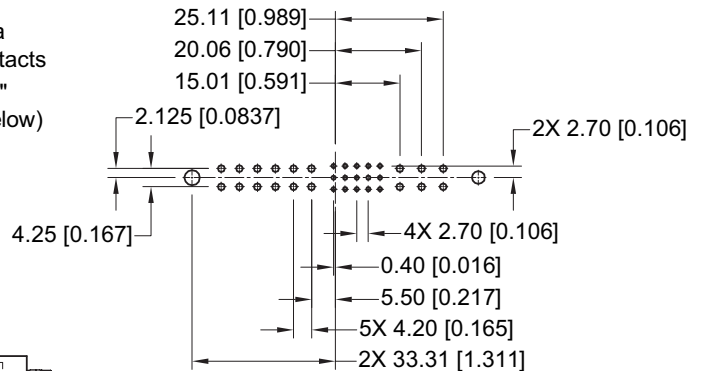
MALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER
PCIM33W18M9300A1
PCIM33W18M9400A1

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest $\varnothing 3.56 \pm 0.08$ [0.140 \pm 0.003] holes for connector mounting holes.

NOTE: See page 105 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.

For press-fit connector installation tools, see pages 105-106.

For mounting screw options, see page 105.

CONTACT TAIL LENGTH		
Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE. 68

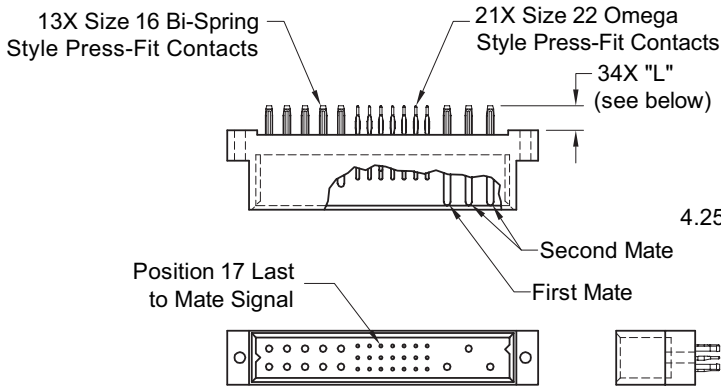


COMPLIANT PRESS-FIT BOARD MOUNT CONNECTOR, MALE

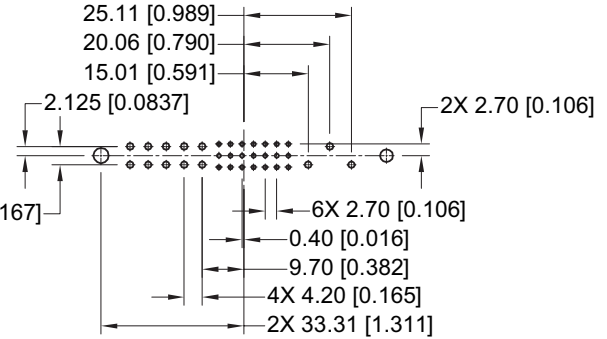
MALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER
PCIM34W13M9300A1
PCIM34W13M9400A1

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

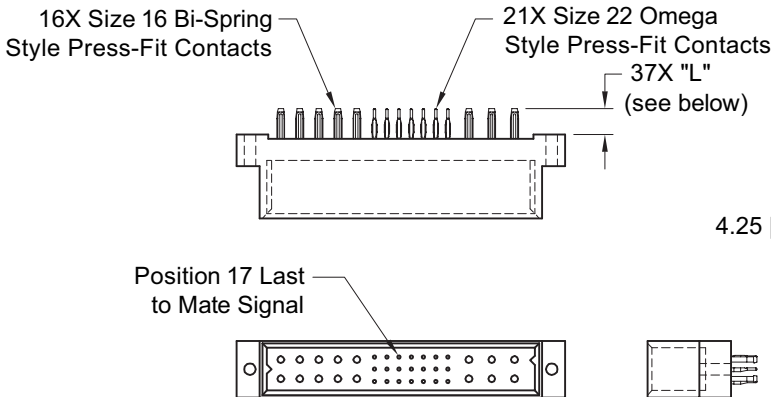
Note: See below for suggested printed board hole sizes, press-fit connector installation tools, and mounting screw options.

CONTACT TAIL LENGTH		
Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]

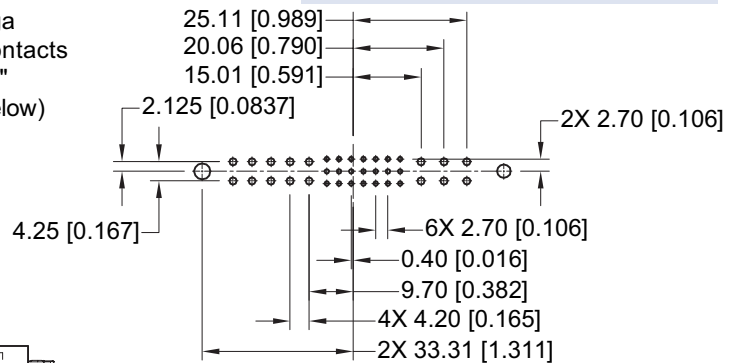
MALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER
PCIM37W16M9300A1
PCIM37W16M9400A1

Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

CONTACT TAIL LENGTH		
Code	"L" Length	Board Thickness
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 min. [0.175 min.]

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest $\varnothing 3.56 \pm 0.08$ [0.140 \pm 0.003] holes for connector mounting holes.

NOTE: See page 105 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions.

For press-fit connector installation tools, see pages 105-106.

For mounting screw options, see page 105.



ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting An Option From Step 1 Through 7

STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	PCIM	34W13	F	93	0	0	A1	/AA	

STEP 1 - BASIC SERIES

PCIM - PCIM Series

STEP 2 - CONNECTOR VARIANTS

- 30W15 - 15 size 16 contacts and 15 size 22 contacts
- 30W15R - 15 size 16 contacts and 15 size 22 contacts. Inverted termination style, use with contact type "4"
- 33W18 - 18 size 16 contacts and 15 size 22 contacts
- 33W18R - 18 size 16 contacts and 15 size 22 contacts. Inverted termination style, use with contact type "4"
- 34W13 - 13 size 16 contacts and 21 size 22 contacts
- 34W13R - 13 size 16 contacts and 21 size 22 contacts. Inverted termination style, use with contact type "4"
- 37W16 - 16 size 16 contacts and 21 size 22 contacts
- 37W16R - 16 size 16 contacts and 21 size 22 contacts. Inverted termination style, use with contact type "4"

STEP 3 - CONNECTOR GENDER

- F - Female
- M - Male

STEP 4 - CONTACT TERMINATION TYPE

- 3 - Solder, Straight Printed Board Mount with 4.50 [0.177] tail extension for connection system 1.
- 4 - Solder, Right Angle (90°) Printed Board Mount with 2.68 [0.106] tail extension for connection systems 1 and 4.
- 8 - Contacts must be ordered separately for Panel Mount Cable Connectors, connection system 3, see pages 102-103. Female connector only.
- 93 - Press-Fit, Compliant Termination size 16 and size 22 Straight Printed Board Mount for use with board thicknesses of 2.29 to 4.45 [0.090 to 0.175]. Connection system 1.
- 94 - Press-Fit, Compliant Termination size 16 and size 22 Straight Printed Board Mount for use with board thickness of 4.45 minimum [0.175 minimum]. Connection system 1.

STEP 9 - SPECIAL OPTIONS

FOR LISTING OF SPECIAL OPTIONS, SEE SPECIAL OPTIONS APPENDIX ON PAGES 107-108.

STEP 8 - ENVIRONMENTAL COMPLIANCE OPTIONS

/AA - Compliant per EU Directive 2002/95/EC (RoHS)

NOTE: If compliance to environmental legislation is not required, this step will not be used. Example: PCIM34W13F9300A1

STEP 7 - CONTACT PLATING FOR PRINTED BOARD TYPE CONNECTORS

- 0 - Crimp contacts ordered separately
- A1 - Gold flash over nickel on mating end and termination end.
- A2 - Gold flash over nickel on mating end and 5.00µ [0.00020 inch] tin-lead solder coat on termination end. Not available with code 93 or code 94 in step 4.
- C1 - 0.76µ [0.000030 inch] gold over nickel on mating end and termination end.
- C2 - 0.76µ [0.000030 inch] gold over nickel on mating end and 5.00µ [0.00020 inch] tin-lead solder coat on termination end. Not available with code 93 or code 94 in step 4.
- D1 - 1.27µ [0.000050 inch] gold over nickel on mating end and termination end.
- D2 - 11.27µ [0.000050 inch] gold over nickel on mating end and 5.00µ [0.00020 inch] tin-lead solder coat on termination end. Not available with code 93 or code 94 in step 4.

STEP 6 - HOODS

- 0 - Not applicable

STEP 5 - MOUNTING STYLE

- 0 - Standard Option
- See page 105 for mounting screw options.

NOTE: If you would like a 2D drawing or 3D model, once you've made your connector selection, please visit www.connectpositronic.com. If you can't find your specific part number on our web site, contact Technical Sales to have one created.

