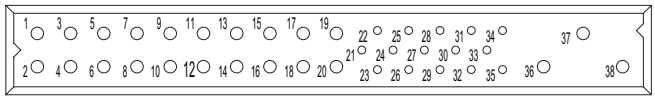
The **PCIH** series was developed specifically for use with **CompactPCI®** in-rack modular power supplies. The package size is ideal for use in all 3U and 6U based platforms. The PCIH series is an excellent choice in **IEEE 1101.1**, **IEEE 1101.10**, and **VITA 30** applications where system power requirements have exceeded the capabilities of commonly used power connectors.

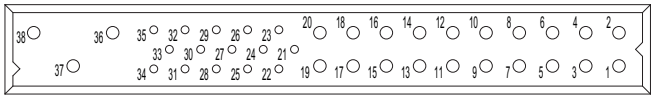
The **PCIH47** variant is fully compliant to the **PICMG® 2.11 Power Interface Specification**. This Specification details standardized power for use with **CompactPCI®** systems. Visit www.picmg.com for details.

PCIH SERIES CONTACT VARIANTS

FACE VIEW OF MALE AND REAR VIEW OF FEMALE



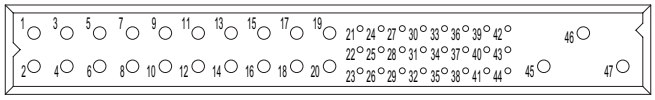
PCIH38 VARIANT



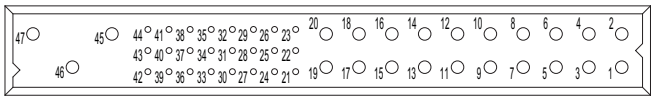
PCIH38R VARIANT (Inverted Termination)

23 Size 16 Power Contacts and 15 Size 20 Signal Contacts

CompactPCI®

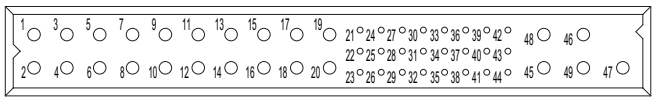


PCIH47 VARIANT

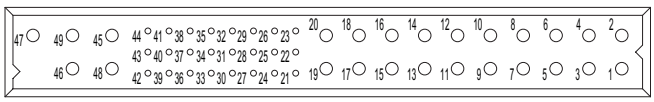


PCIH47R VARIANT (Inverted Termination)

23 Size 16 Power Contacts and 24 Size 22 Signal Contacts



PCIH49W25 VARIANT



PCIH49W25R VARIANT

25 Size 16 Power Contacts and 24 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 20 and 22 contacts: Precision-machined copper alloy.

Plating: gold flash over nickel. Other plating options available, refer to Step 7 on page 36.

Mounting Screws: Steel, zinc plated.

ELECTRICAL CHARACTERISTICS:

PCIH Contact Current Ratings, per UL 1977

See Temperature Rise Curves on page 4 for details.

PCIH38:

Size 16 Power Contacts:
- Positions 36, 37, and 38: 40 amperes continuous, all contacts under load.
- Positions 1 - 20: 28 amperes continuous, all contacts under load.

Size 20 Signal Contacts: 5 amperes nominal rating.

PCIH47:

Size 16 Power Contacts:
- Positions 45, 46, and 47: 40 amperes continuous, all contacts under load.
- Positions 1 - 20: 28 amperes continuous, all contacts under load.

Size 22 Signal Contacts: 3 amperes nominal rating.

PCIH49:

Size 16 Power Contacts:
- Positions 45 through 49: 37 amperes continuous, all contacts under load.
- Positions 1 - 20: 28 amperes continuous, all contacts under load.

Size 22 Signal Contacts: 3 amperes nominal rating.

Initial Contact Resistance; maximum:

Size 16 Contact:	0.0007 ohms maximum.
Size 20 Contact:	0.004 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:

PCIH38:

Contacts 36, 37 and 38:	3,000 V r.m.s.
Contacts 1 through 20:	1,500 V r.m.s.
Contacts 21 through 35:	1,000 V r.m.s.

PCIH47:

Contacts 45, 46, and 47:	3,000 V r.m.s.
Contacts 1 through 20:	1,500 V r.m.s.
Contacts 21 through 44:	1,000 V r.m.s.

PCIH49:

Contacts 1 through 20:	1,500 V r.m.s.
Contacts 45 through 49:	1,500 V r.m.s.
Contacts 21 through 44:	1,000 V r.m.s.

Creepage and Clearance Distance; minimum:

PCIH38:

Contact 38 to Contact 36:	3.2mm [0.126 inch]
Contact 37 to Contact 36:	3.2mm [0.126 inch]
Contact 38 to Signal Contacts:	6.4mm [0.252 inch]
Contact 37 to Signal Contacts:	6.4mm [0.252 inch]
Contact 38 to Contact 37:	2.5mm [0.098 inch]
Contact 36 to Signal Contacts:	2.0mm [0.079 inch]

PCIH47:

Contact 47 to Contact 45:	3.2mm [0.126 inch]
Contact 46 to Contact 45:	3.2mm [0.126 inch]
Contact 47 to Signal Contacts:	6.4mm [0.252 inch]
Contact 46 to Signal Contacts:	6.4mm [0.252 inch]
Contact 47 to Contact 46:	2.5mm [0.098 inch]
Contact 45 to Signal Contacts:	2.0mm [0.079 inch]
Contact 36 to Signal Contacts:	2.0mm [0.079 inch]

Working Voltage:

PCIH38:

Contacts 36, 37 and 38:	1,000 V r.m.s.
Contacts 1 through 20:	500 V r.m.s.
Contacts 21 through 35:	333 V r.m.s.

PCIH47:

Contacts 45, 46, and 47:	1,000 V r.m.s.
Contacts 1 through 20:	500 V r.m.s.
Contacts 21 through 44:	333 V r.m.s.

PCIH49:

Contacts 1 through 20:	500 V r.m.s.
Contacts 45 through 49:	500 V r.m.s.
Contacts 21 through 44:	333 V r.m.s.

MECHANICAL CHARACTERISTICS:

Blind Mating System: Male and female connector bodies provide “lead-in” for 1.3 mm [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, 20 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 20 Contacts:	45 N [10 lbs.]
Size 22 Contacts:	27 N [6 lbs.]

Fixed Contacts: Printed board terminations, both straight and right angle (90º). Size 16 female contacts feature “Closed Entry” design. Size 20 and 22 feature rugged “Open Entry” contact design. “Closed Entry” contacts available, consult Technical Sales.

TECHNICAL CHARACTERISTICS

Fixed Contact Retention in Connector Body:
Size 16 Contacts: 45 N [10 lbs.]
Size 20 and 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:
PCIH38: First mate contact 36 and last mate contact positions 22, 25 and 28.
PCIH47 and PCIH49 with MOS: First mate contact 45 and last mate contact position 27.
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.

PCIH38: Contact positions 37 and 38.

PCIH47 and PCIH49 with MOS: Contact positions 46 and 47.

Compliant Terminations: Size 16, 20 and 22 contacts are available with compliant contact terminations. Average insertion and extraction forces of size 16 contacts are 22N (5 lbs.) per contact.

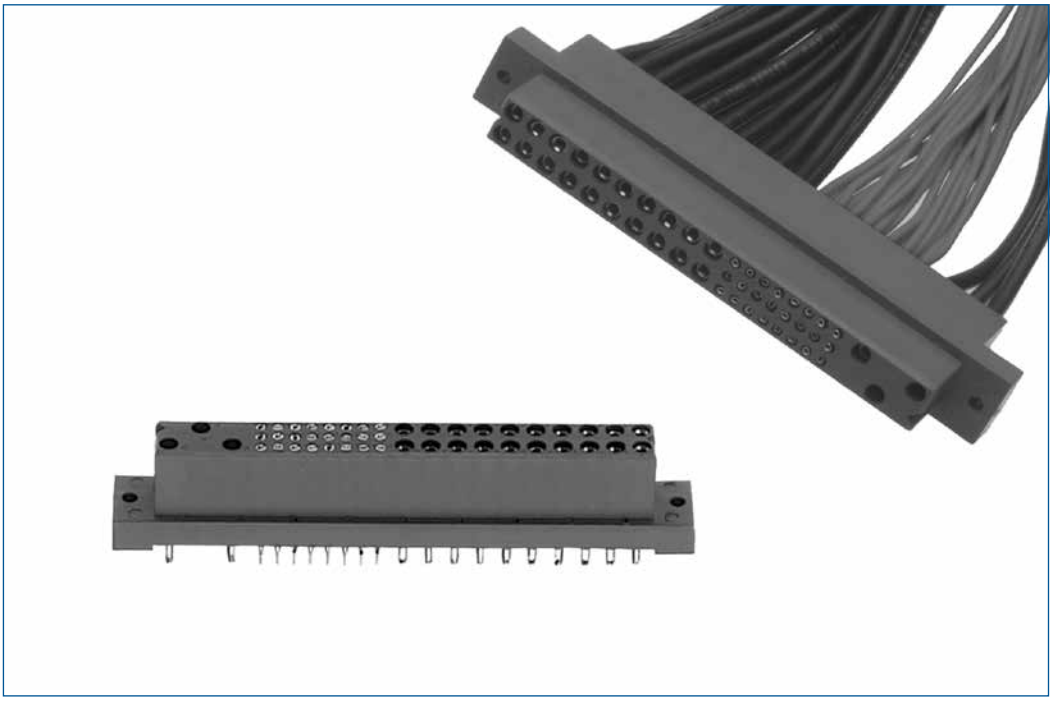
Printed Board and Panel Mounting: Mounting holes provided in connector body for both printed board and panel mounting. Self-tapping screws are available.

Mechanical Operations: 250 couplings, minimum.

CLIMATIC CHARACTERISTICS:

Working Temperature: -55˚C to +125˚C.

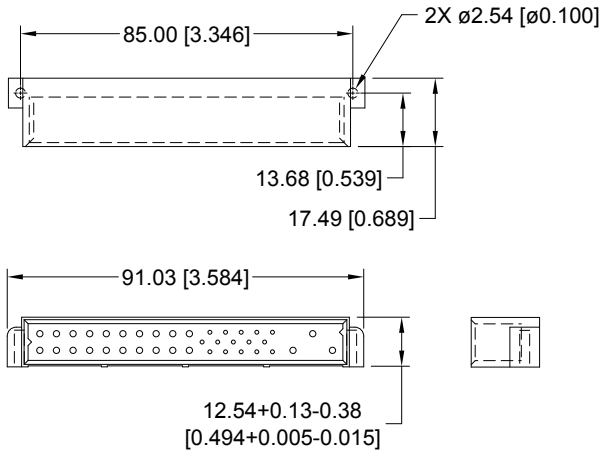
U.L. Recognized File #E49351
CSA Recognized File #LR54219
TUV Recognized File #215/99



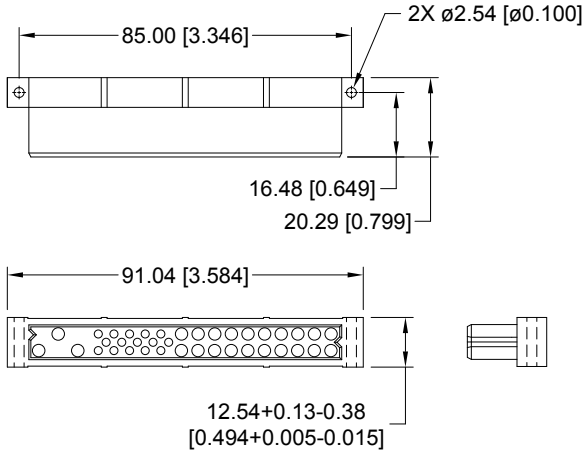
PCIH CONNECTOR OUTLINE DIMENSIONS

RIGHT ANGLE (90º) BOARD MOUNT CONNECTOR

MALE CONNECTOR

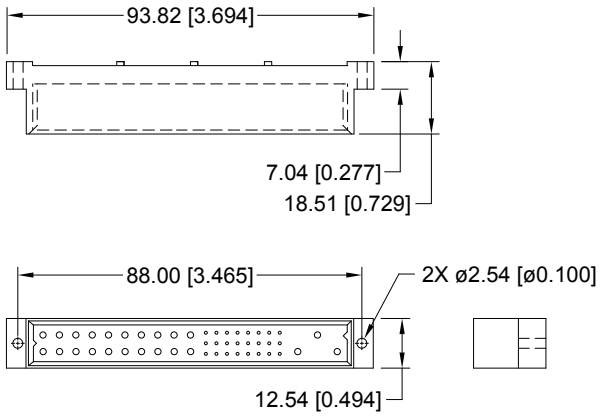


FEMALE CONNECTOR

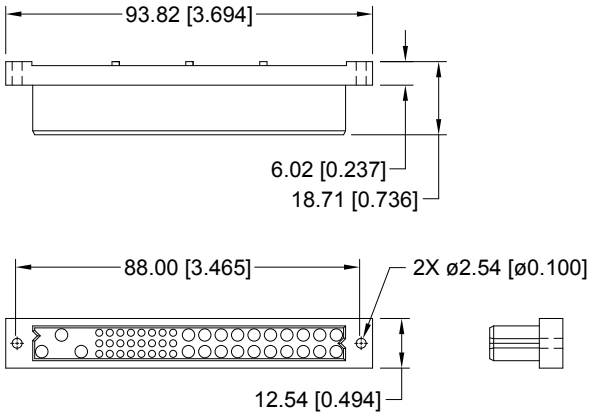


STRAIGHT BOARD MOUNT CONNECTOR

MALE CONNECTOR

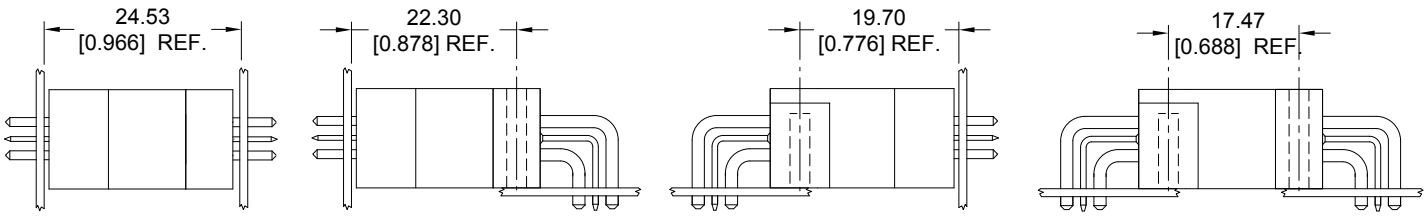


FEMALE CONNECTOR



PCIH CONNECTOR MATING DIMENSIONS

(FULLY MATED)



Straight Board Mount Male to Straight Board Mount or Panel Mount Female

Straight Board Mount Male to Right Angle (90º) Board Mount Female

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

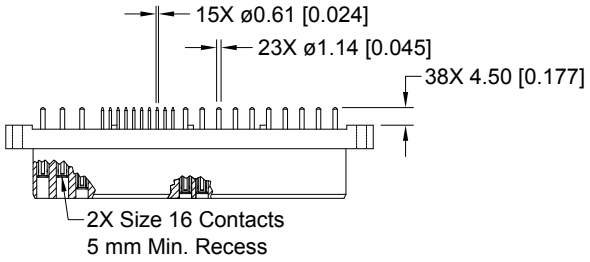
Right Angle (90º) Board Mount Male to Right Angle (90º) Board Mount Female

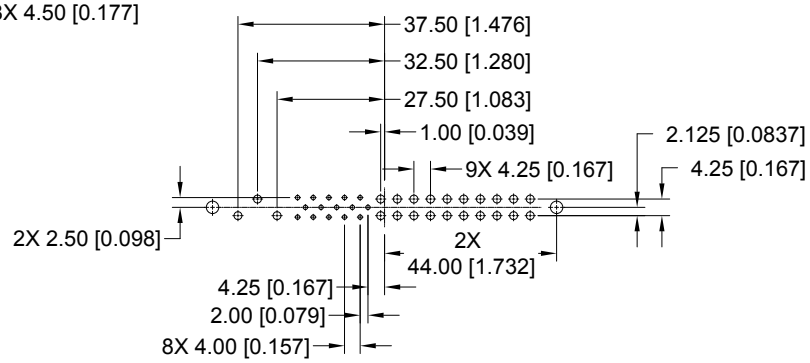
SEE PAGE 29 FOR PANEL MOUNT CONNECTOR DIMENSIONS.

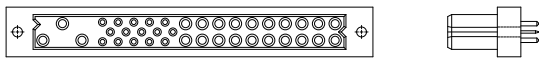
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

FEMALE STRAIGHT SOLDER CONNECTOR
CODE 3

STANDARD PART NUMBER
PCIH38F300A1







CONTACT HOLE PATTERN

CONNECTOR DIMENSIONS

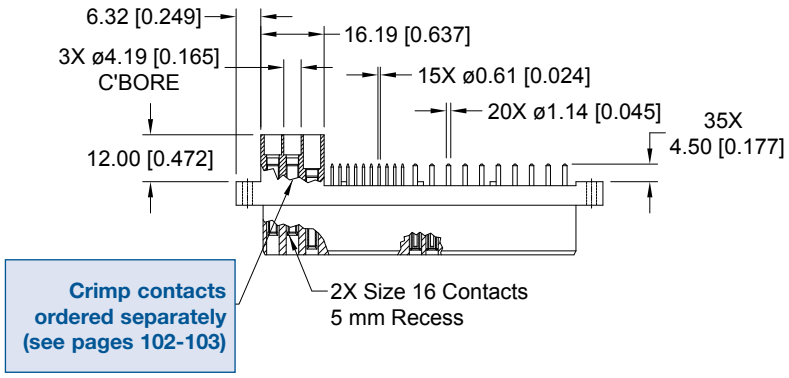
Note: See below for suggested printed board hole sizes.

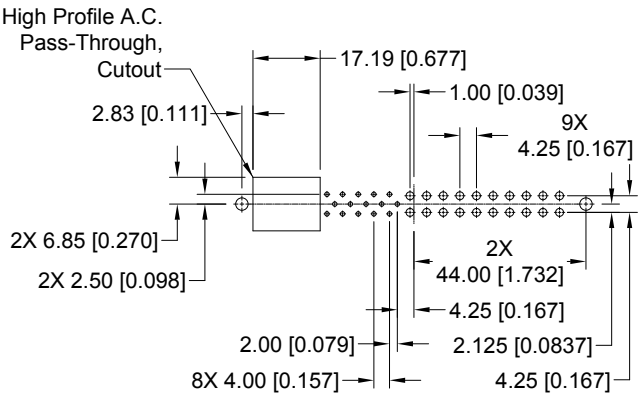
FEMALE STRAIGHT SOLDER CONNECTOR WITH A.C. PASS-THROUGH
CODE 3 WITH MOS* -245.0

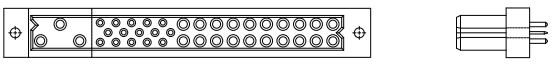
CRIMP CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

HIGH PROFILE PART NUMBER
PCIH38F300A1-245.0

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







CONTACT HOLE PATTERN

CONNECTOR DIMENSIONS

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.00 [0.039] holes for size 20 and 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 WITH A.C. PASS-THROUGH

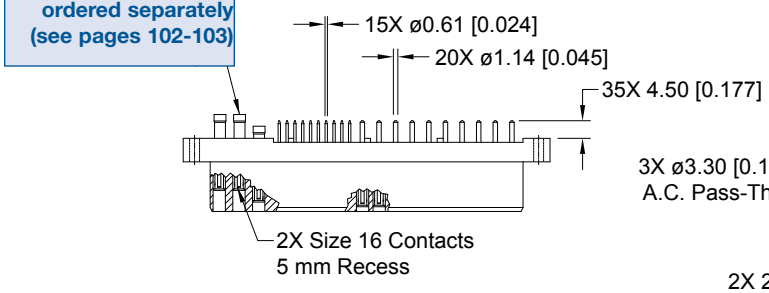
CODE 3 WITH MOS* -246.1

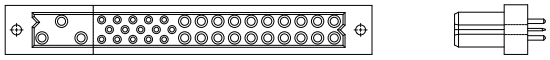
CRIMP CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

LOW PROFILE PART NUMBER
PCIH38F300A1-246.1

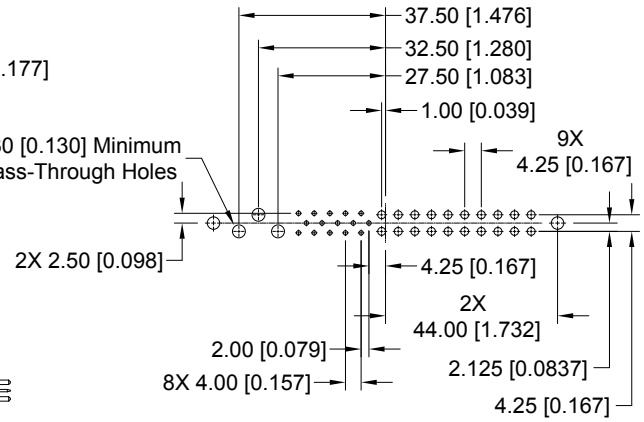
For MOS descriptions, see chart on pages 107-108.

Crimp contacts ordered separately (see pages 102-103)





CONNECTOR DIMENSIONS



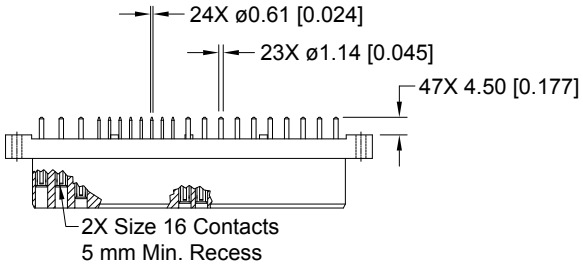
CONTACT HOLE PATTERN

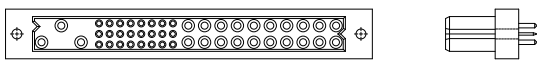
Note: See below for suggested printed board hole sizes.

FEMALE STRAIGHT SOLDER CONNECTOR

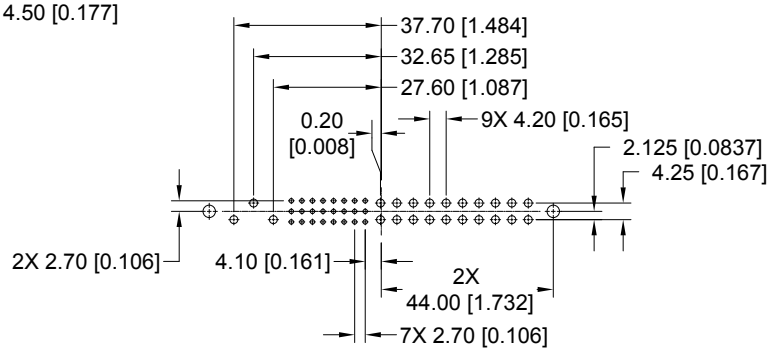
CODE 3

STANDARD PART NUMBER
PCIH47F300A1





CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.00 [0.039] holes for size 20 and 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.

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

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

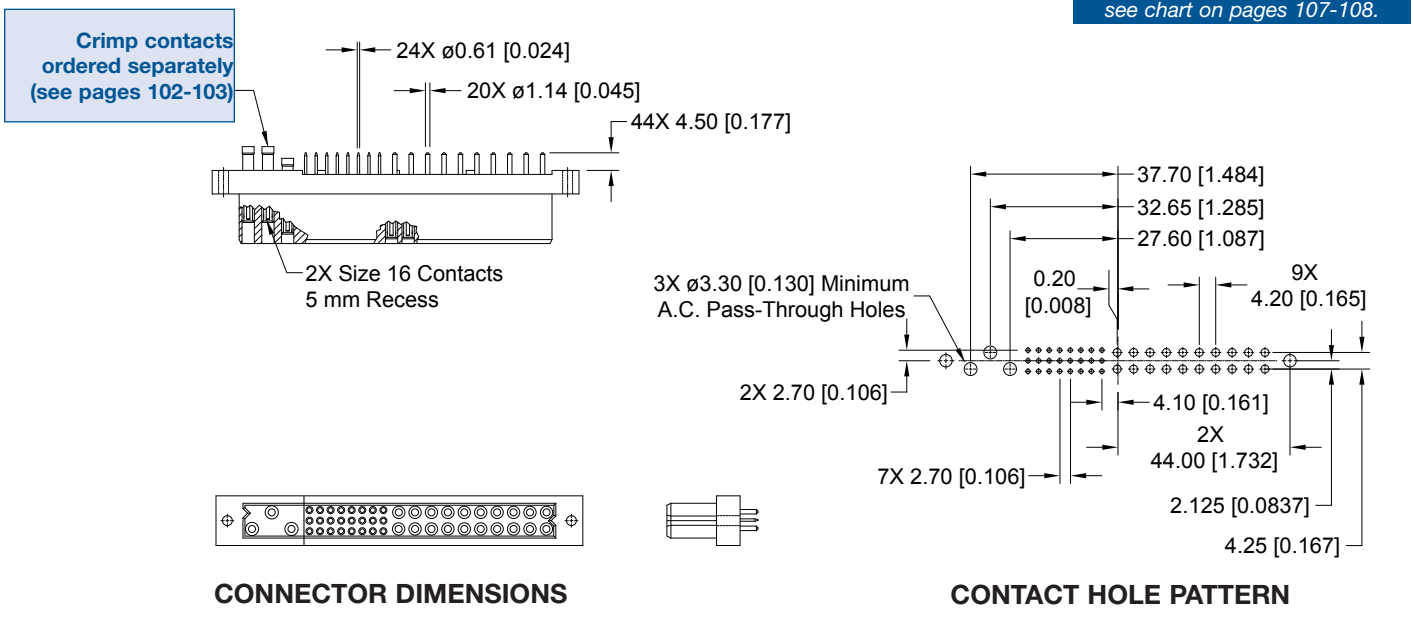
CODE 3 WITH MOS* -246.0

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

LOW PROFILE PART NUMBER

PCIH47F300A1-246.0

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



CONNECTOR DIMENSIONS

CONTACT HOLE PATTERN

Note: See below for suggested printed board hole sizes.

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

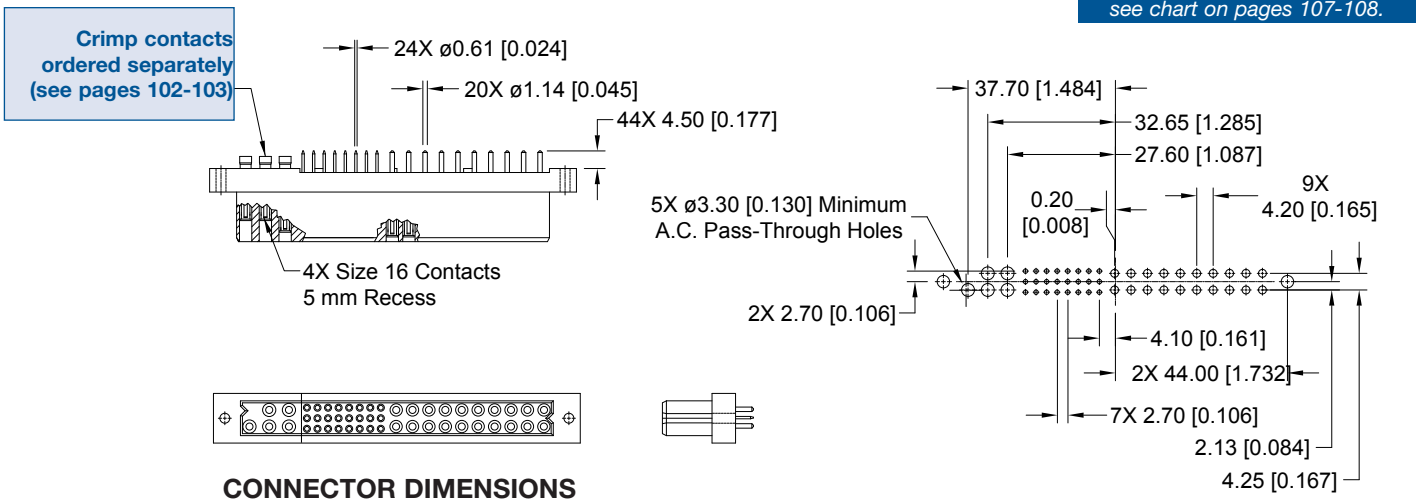
CODE 3 WITH MOS* -246.3

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

LOW PROFILE PART NUMBER

PCIH49W25F300A1-246.3

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



CONNECTOR DIMENSIONS

CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.00 [0.039] holes for size 20 and 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.

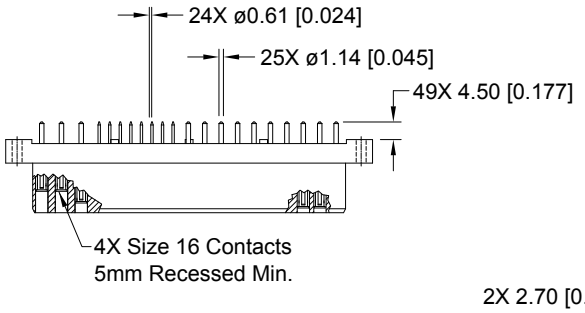
FEMALE STRAIGHT SOLDER CONNECTOR

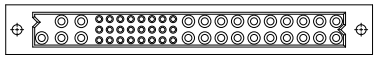
CODE 3 WITH MOS* -379.0

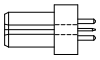
STANDARD PART NUMBER

PCIH49W25F300A1-379.0

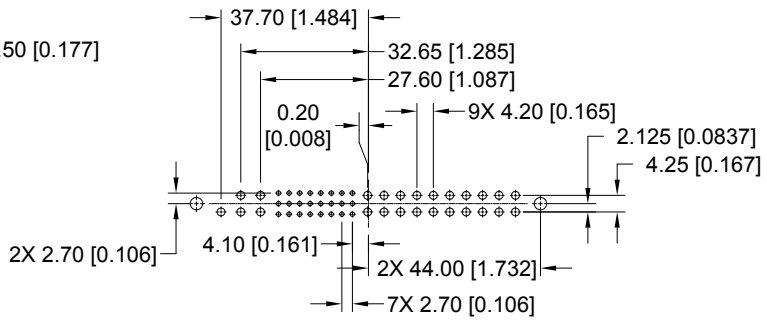
For MOS descriptions, see chart on pages 107-108.







CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

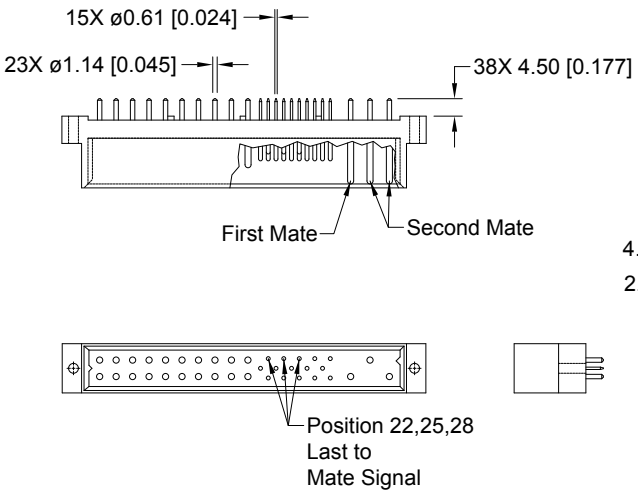
SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.00 [0.039] holes for size 20 and 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.

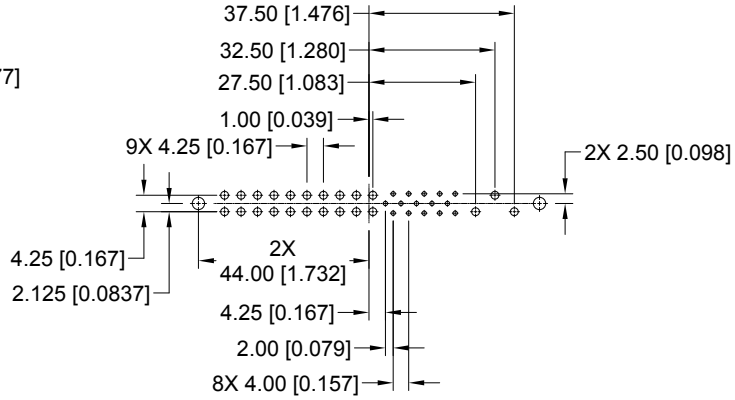
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

MALE STRAIGHT SOLDER CONNECTOR
CODE 3

STANDARD PART NUMBER
PCIH38M300A1



CONNECTOR DIMENSIONS

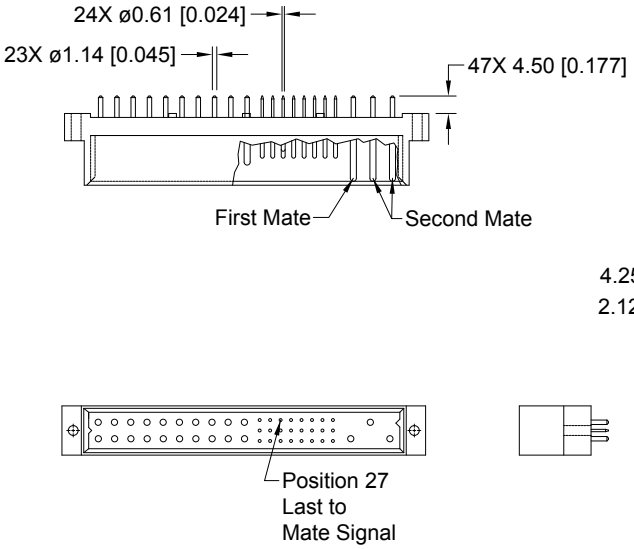


CONTACT HOLE PATTERN

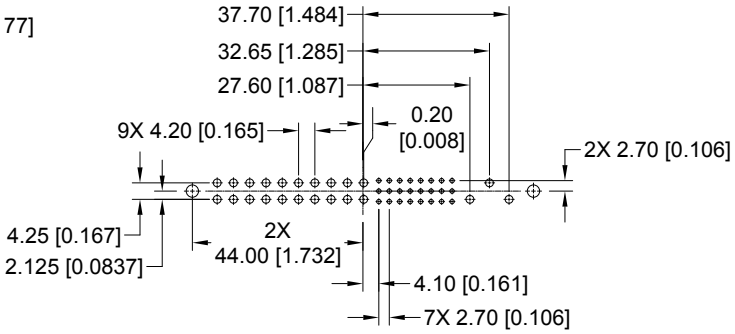
Note: See below for suggested printed board hole sizes.

MALE STRAIGHT SOLDER CONNECTOR
CODE 3

STANDARD PART NUMBER
PCIH47M300A1



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.00 [0.039] holes for size 20 and 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.

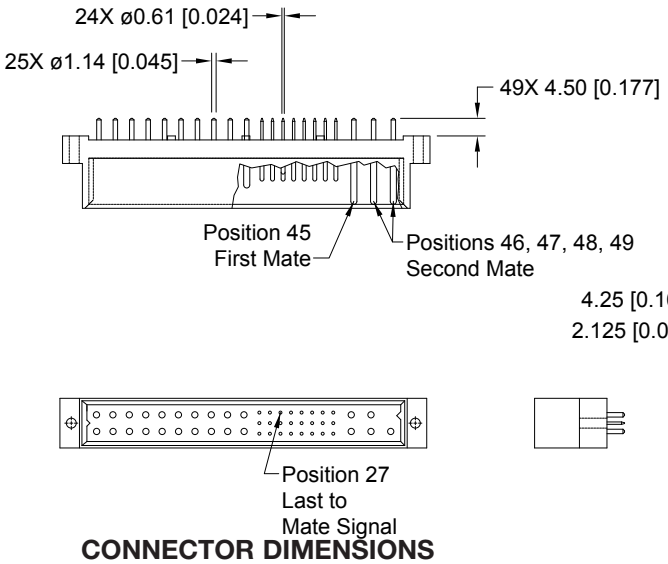
MALE STRAIGHT SOLDER CONNECTOR

CODE 3 WITH MOS* -378.0

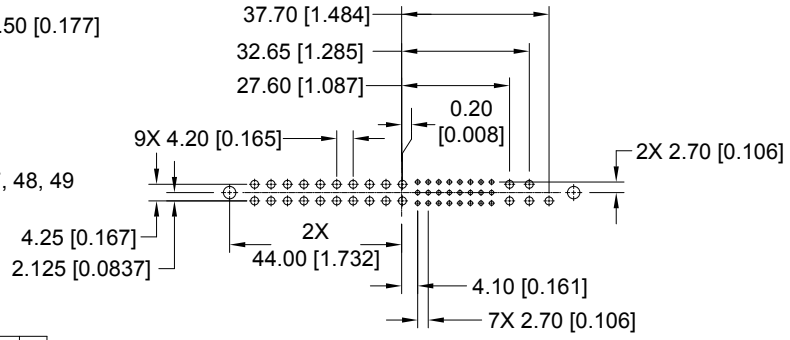
STANDARD PART NUMBER

PCIH49W25M300A1-378.0

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



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

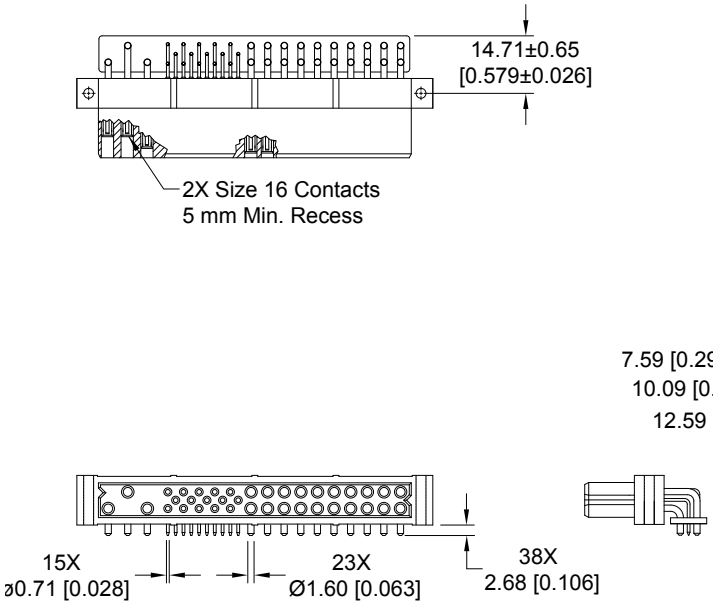
SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.00 [0.039] holes for size 20 and 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.

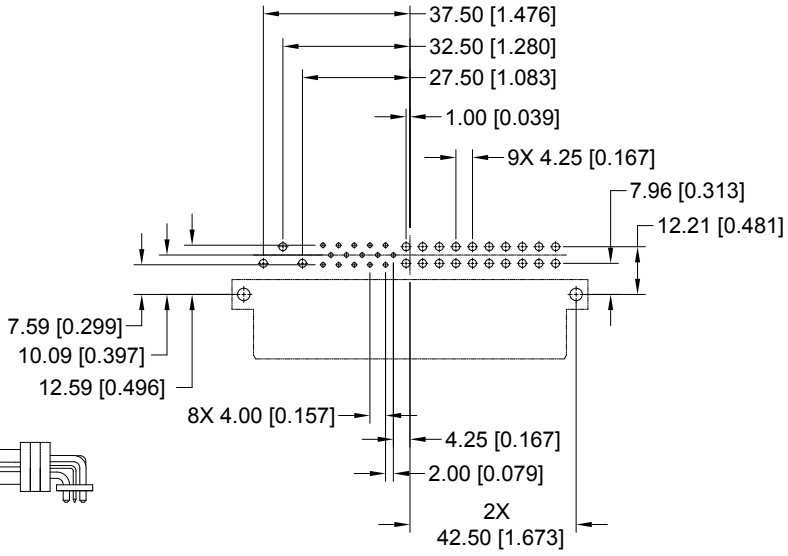
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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

STANDARD PART NUMBER
PCIH38F400A1



CONNECTOR DIMENSIONS

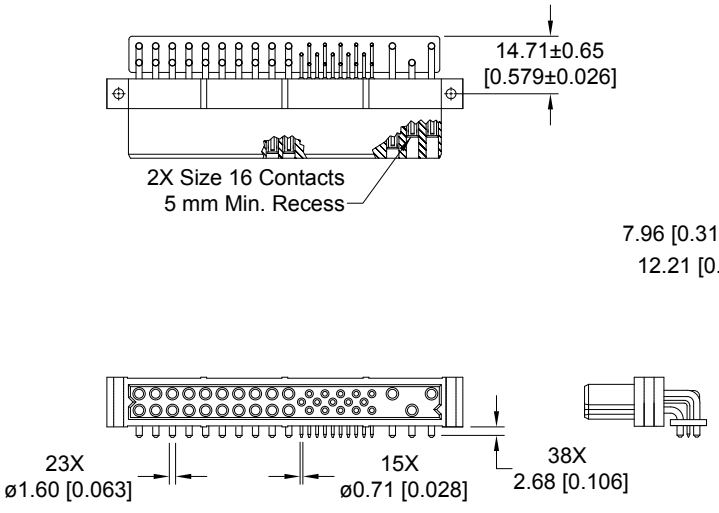


CONTACT HOLE PATTERN

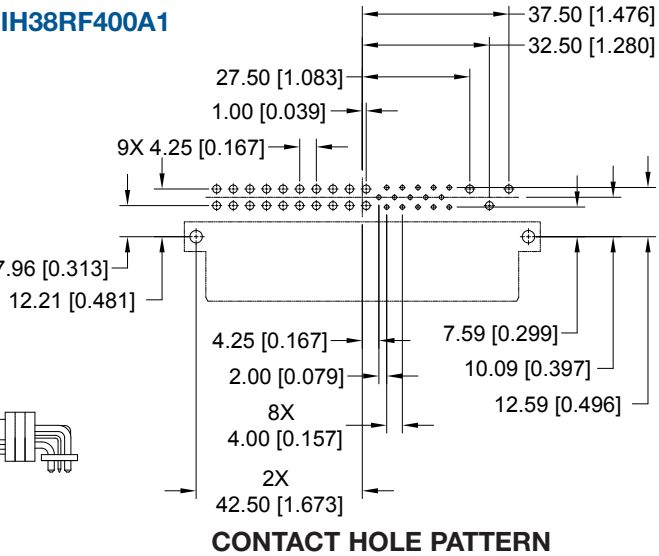
Note: See below for suggested printed board hole sizes.

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

PART NUMBER FOR INVERTED TERMINATION
PCIH38RF400A1



CONNECTOR DIMENSIONS



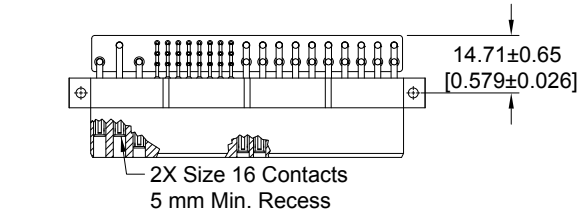
CONTACT HOLE PATTERN

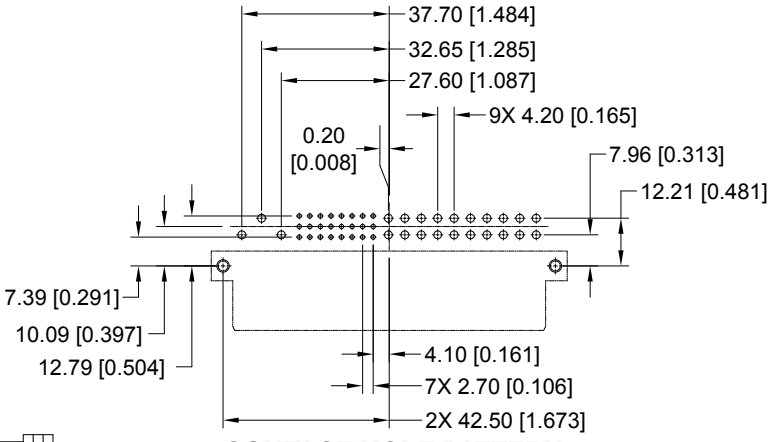
SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.14 [0.045] holes for size 20 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.

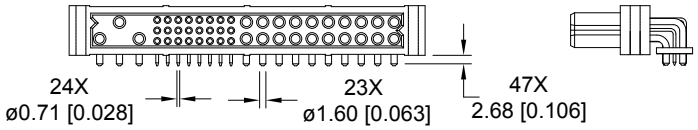
FEMALE RIGHT ANGLE (90º) BOARD MOUNT CONNECTOR
CODE 4

STANDARD PART NUMBER
PCIH47F400A1





CONTACT HOLE PATTERN

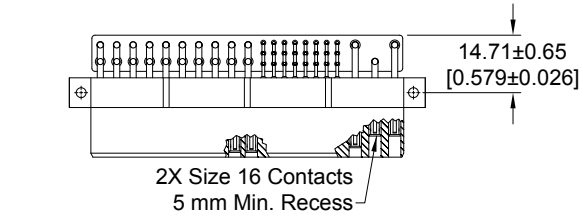


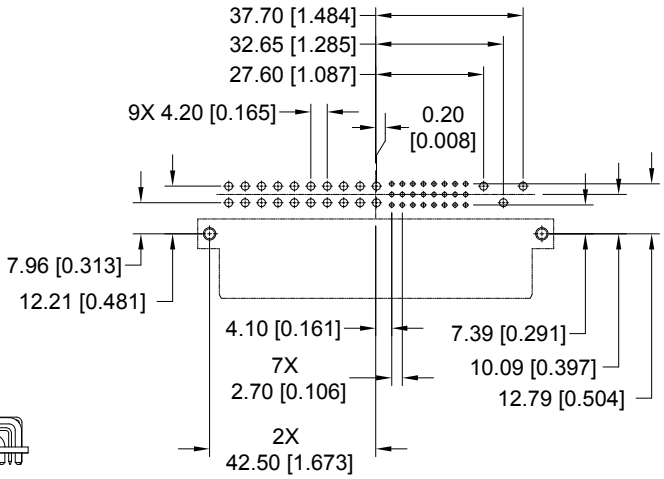
CONNECTOR DIMENSIONS

Note: See below for suggested printed board hole sizes.

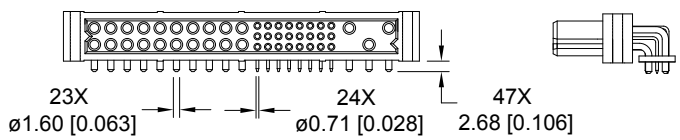
FEMALE RIGHT ANGLE (90º) BOARD MOUNT CONNECTOR
CODE 4

PART NUMBER FOR INVERTED TERMINATION
PCIH47RF400A1





CONTACT HOLE PATTERN



CONNECTOR DIMENSIONS

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.

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

FEMALE RIGHT ANGLE (90º) BOARD MOUNT CONNECTOR WITH A.C. PASS-THROUGH

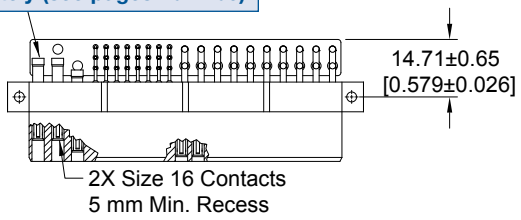
CODE 4 WITH MOS* -246.4

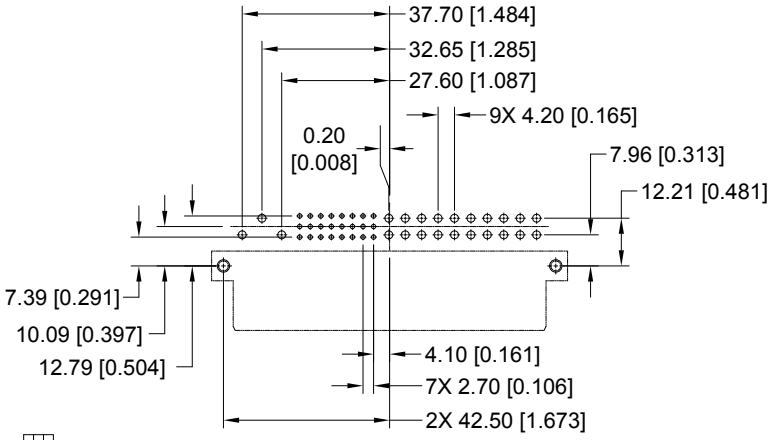
CRIMP CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

STANDARD PART NUMBER
PCIH47F400A1-246.4

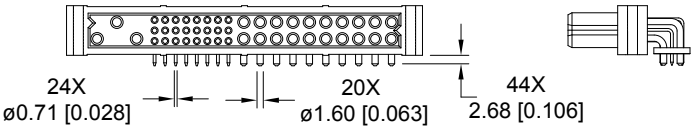
** For MOS descriptions, see chart on pages 107-108.*

Crimp contacts ordered separately (see pages 102-103)





CONTACT HOLE PATTERN



CONNECTOR DIMENSIONS

Note: See below for suggested printed board hole sizes.

FEMALE RIGHT ANGLE (90º) BOARD MOUNT CONNECTOR WITH A.C. PASS-THROUGH

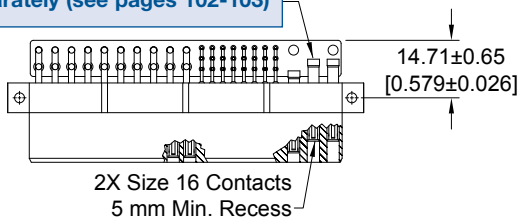
CODE 4 WITH MOS* -246.4

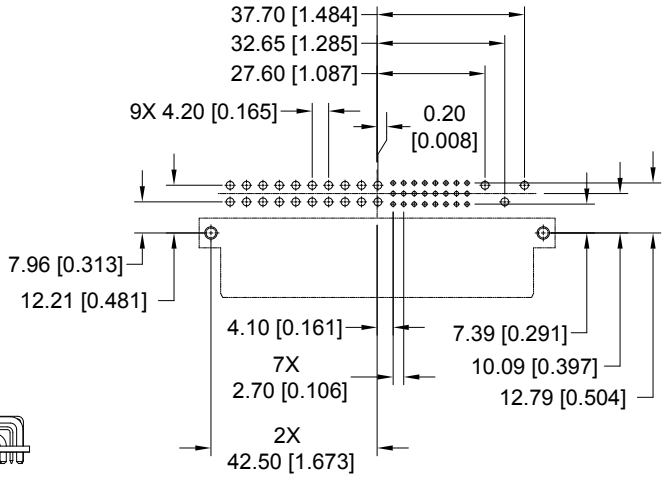
CRIMP CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

PART NUMBER FOR INVERTED TERMINATION
PCIH47RF400A1-246.4

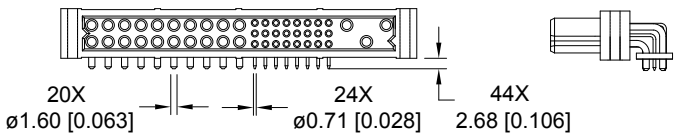
** For MOS descriptions, see chart on pages 107-108.*

Crimp contacts ordered separately (see pages 102-103)





CONTACT HOLE PATTERN



CONNECTOR DIMENSIONS

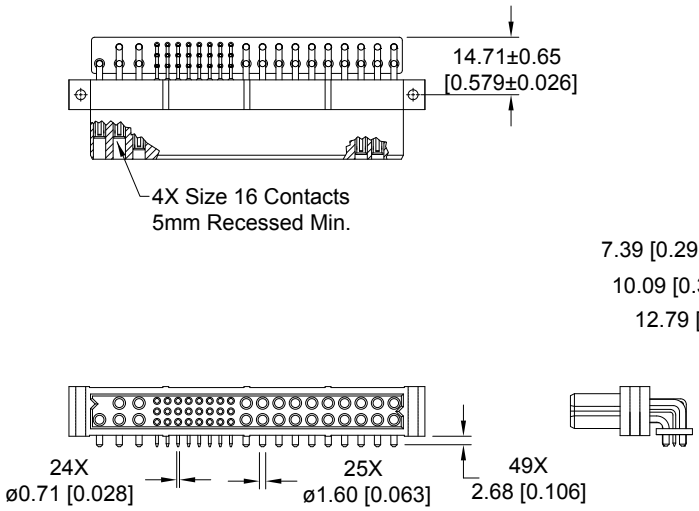
SUGGESTED PRINTED BOARD HOLE SIZES:

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.

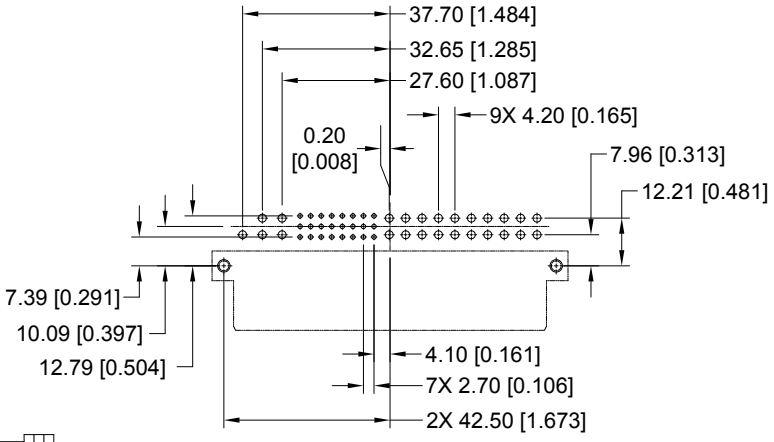
FEMALE RIGHT ANGLE (90º) BOARD MOUNT CONNECTOR
CODE 4 WITH MOS* -379.0

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

STANDARD PART NUMBER
PCIH49W25F400A1-379.0



CONNECTOR DIMENSIONS



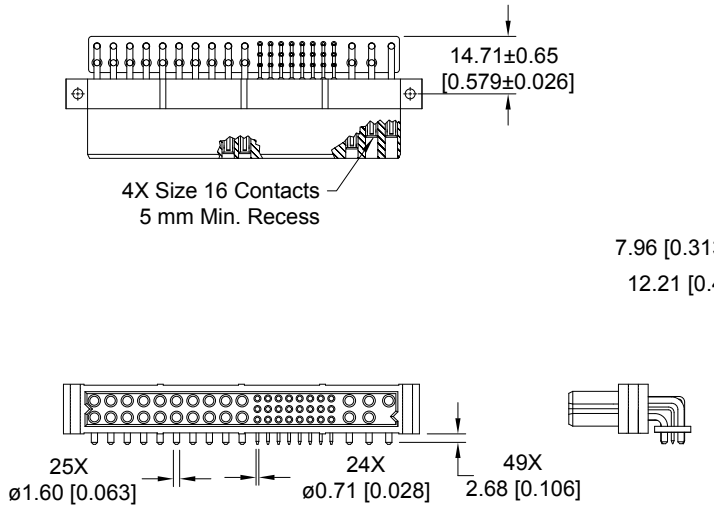
CONTACT HOLE PATTERN

Note: See below for suggested printed board hole sizes.

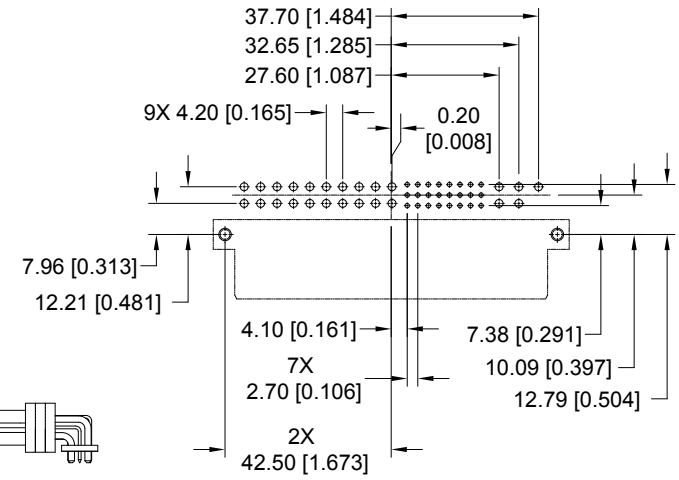
FEMALE RIGHT ANGLE (90º) BOARD MOUNT CONNECTOR
CODE 4 WITH MOS* -379.0

PART NUMBER FOR INVERTED TERMINATION
PCIH49W25RF400A1-379.0

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



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

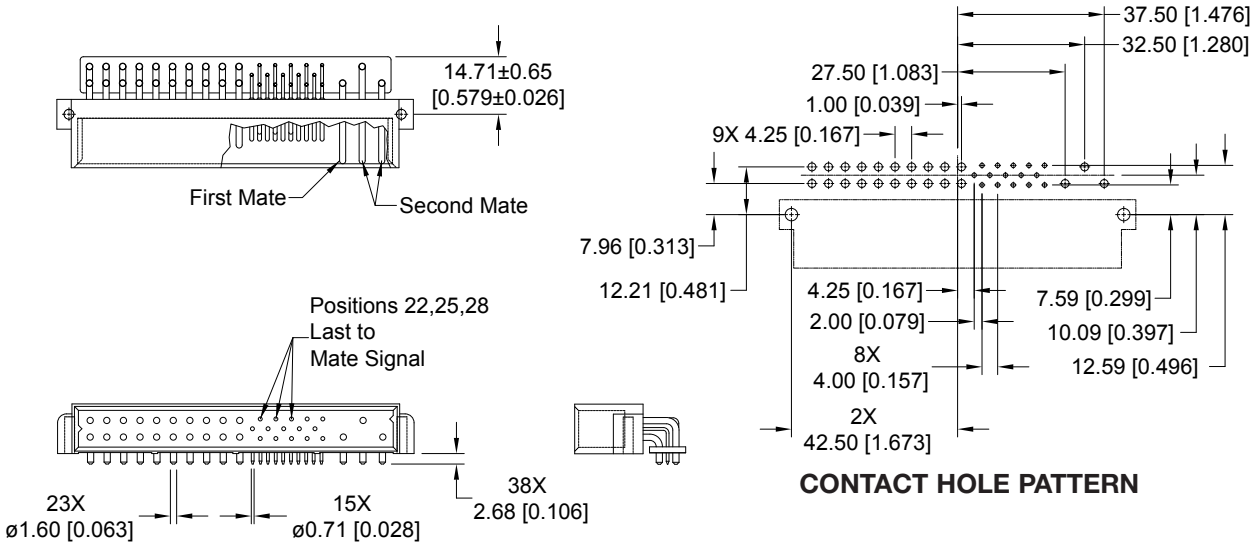
SUGGESTED PRINTED BOARD HOLE SIZES:

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.

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

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

STANDARD PART NUMBER
PCIH38M400A1



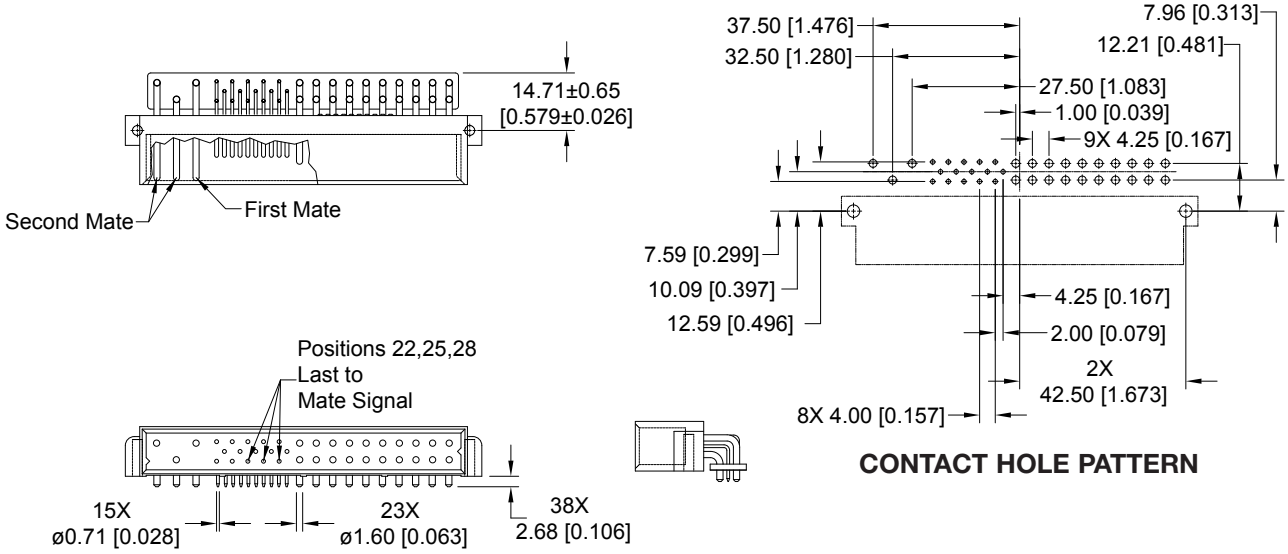
CONNECTOR DIMENSIONS

CONTACT HOLE PATTERN

Note: See below for suggested printed board hole sizes.

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

PART NUMBER FOR INVERTED TERMINATION
PCIH38RM400A1



CONNECTOR DIMENSIONS

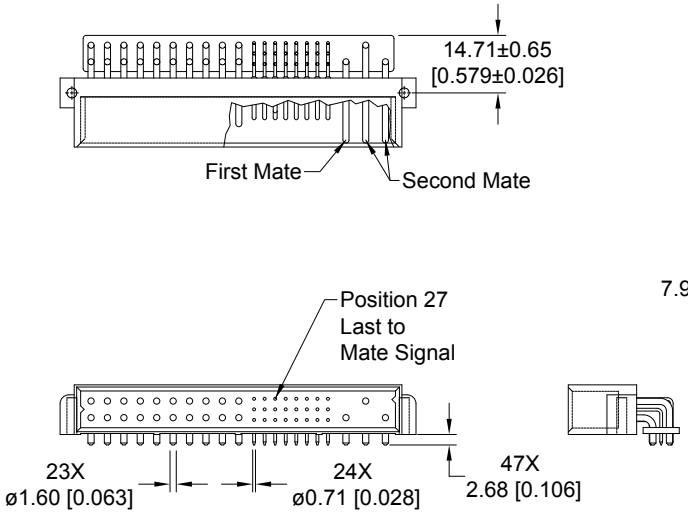
CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

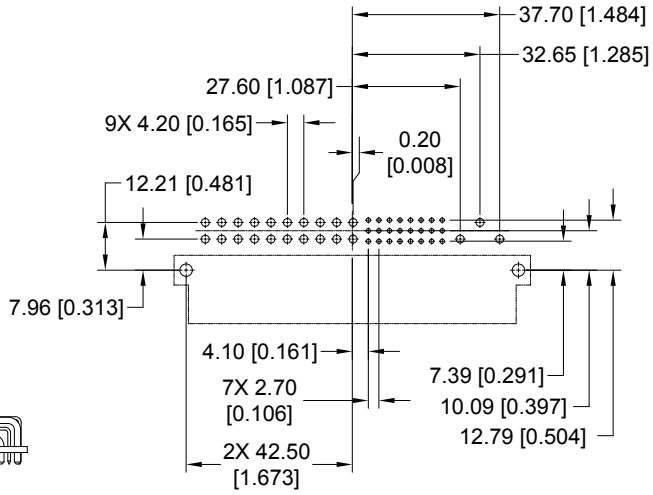
Suggest Ø1.14 [0.045] holes for size 20 contact holes.
Suggest Ø2.03 [0.080] holes for size 16 contact holes.
Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes.

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

STANDARD PART NUMBER
PCIH47M400A1



CONNECTOR DIMENSIONS

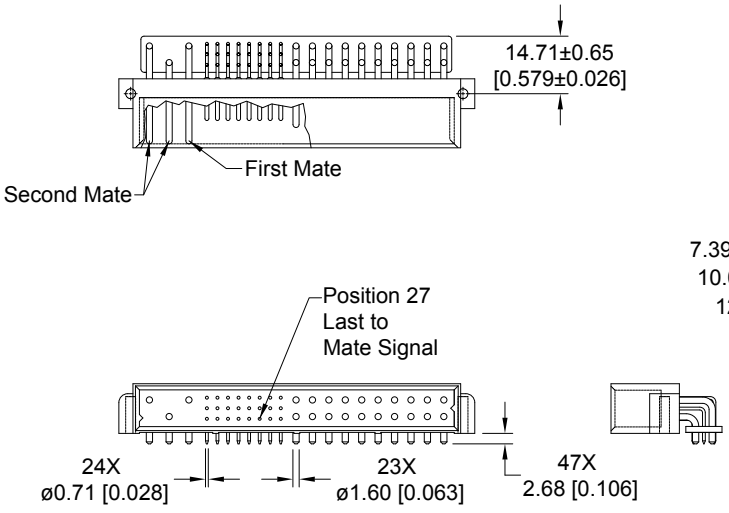


CONTACT HOLE PATTERN

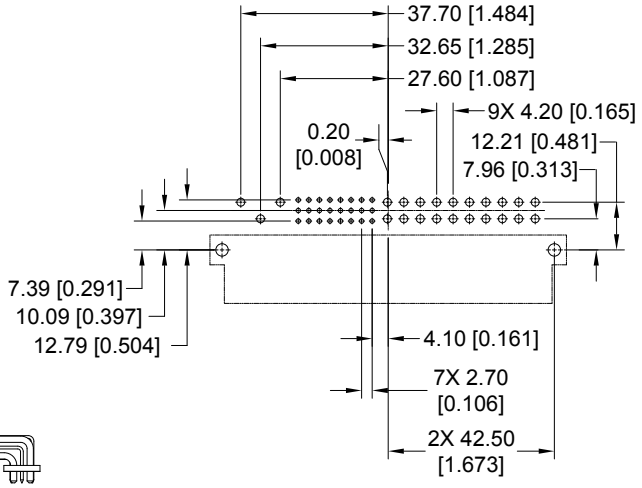
Note: See below for suggested printed board hole sizes.

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

PART NUMBER FOR INVERTED TERMINATION
PCIH47RM400A1



CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.14 [0.045] holes for size 22 contact holes.
Suggest Ø 2.03 [0.080] holes for size 16 contact holes.
Suggest Ø 3.56±0.08 [0.140±0.003] holes for connector mounting holes.

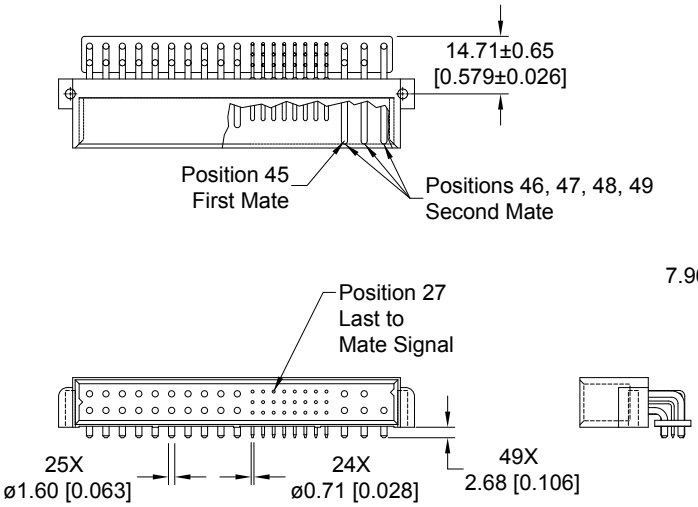
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

MALE RIGHT ANGLE (90º) BOARD MOUNT CONNECTOR

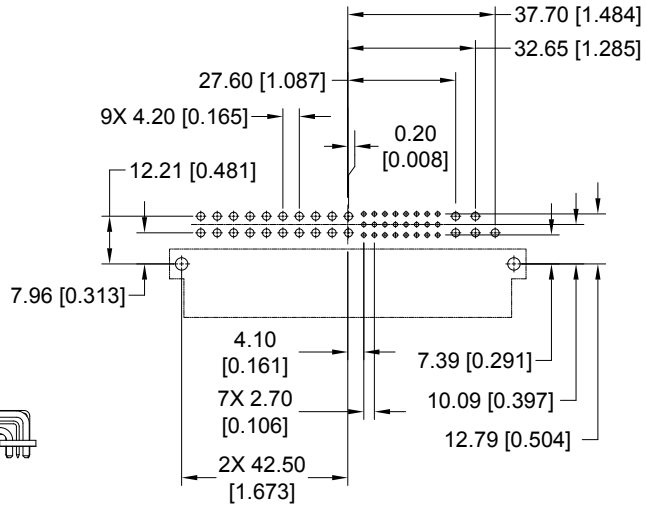
CODE 4 WITH MOS* -378.0

STANDARD PART NUMBER
PCIH49W25M400A1-378.0

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



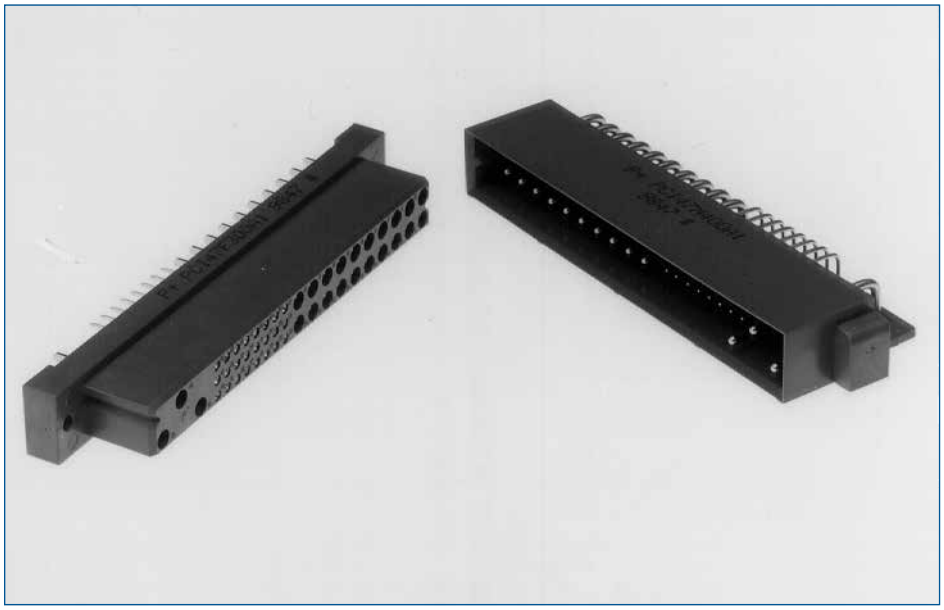
CONNECTOR DIMENSIONS



CONTACT HOLE PATTERN

SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø1.14 [0.045] holes for size 20 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.



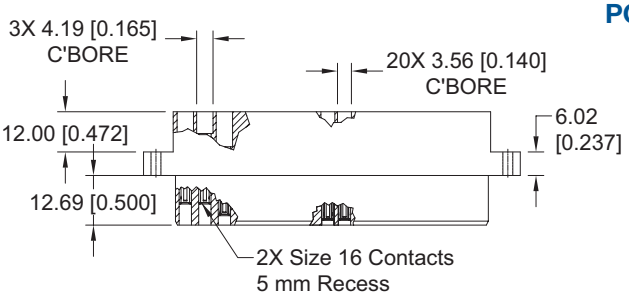
FEMALE PANEL MOUNT CRIMP CONTACT CONNECTORS

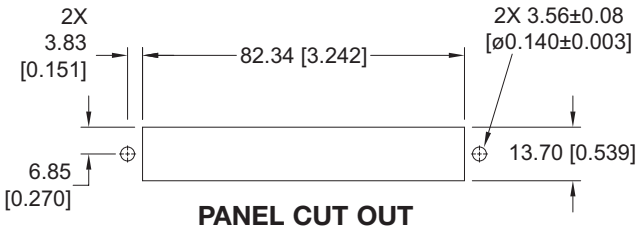
CODE 8

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

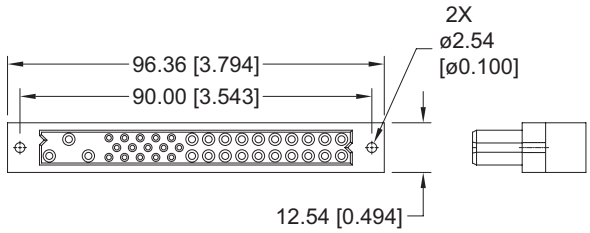
STANDARD PART NUMBER

PCIH38F8000





PANEL CUT OUT



CONNECTOR DIMENSIONS

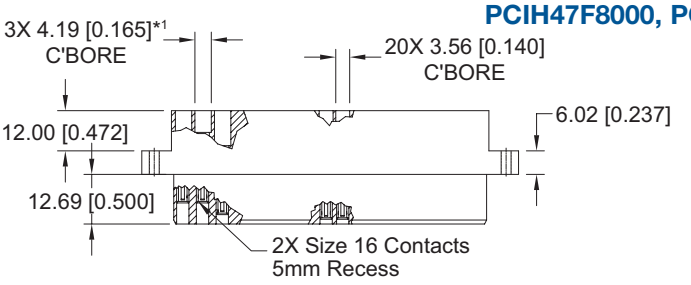
FEMALE PANEL MOUNT CRIMP CONTACT CONNECTORS

CODE 8

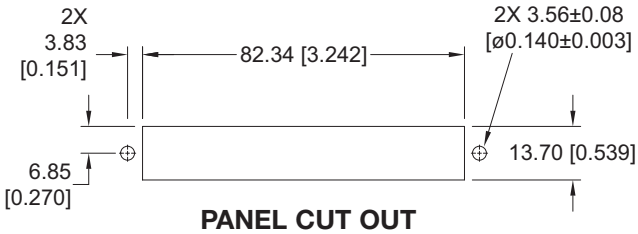
CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

STANDARD PART NUMBER

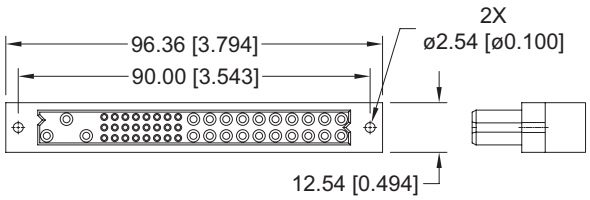
PCIH47F8000, PCIH49W25F8000



*1 For PCIH49W25 versions, this dimension is 3.56 [0.140].



PANEL CUT OUT

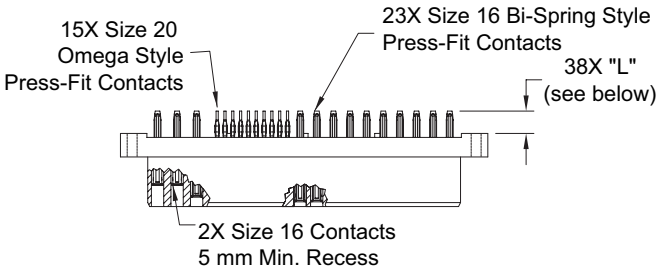


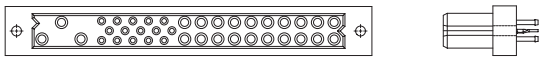
CONNECTOR DIMENSIONS

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

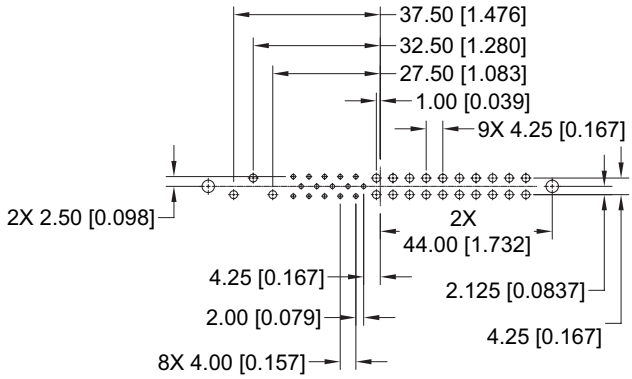
FEMALE COMPLIANT PRESS-FIT CONNECTOR
CODE 93 OR 94

STANDARD PART NUMBER
PCIH38F9300A1, PCIH38F9400A1





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.

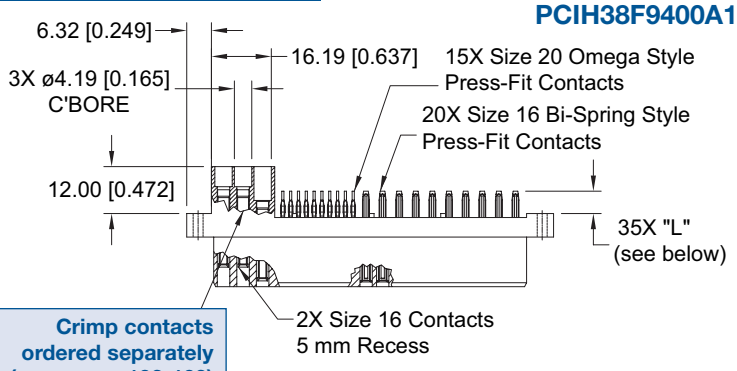
FEMALE COMPLIANT PRESS-FIT CONNECTOR WITH A.C. PASS-THROUGH
CODE 93 OR 94 WITH MOS* -245.0

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

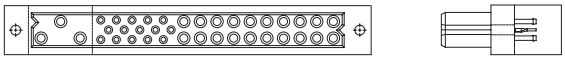
** For MOS descriptions, see chart on pages 107-108.*

HIGH PROFILE PART NUMBER
PCIH38F9300A1-245.0
PCIH38F9400A1-245.0

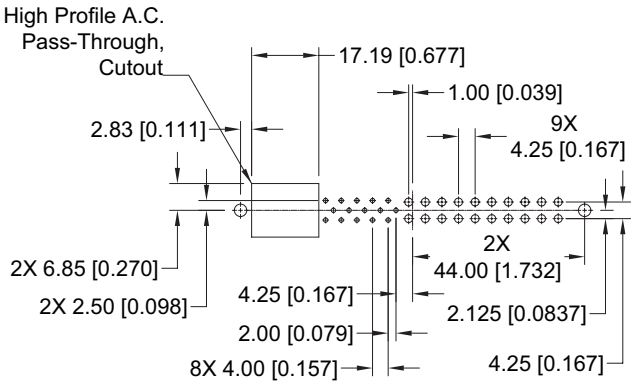
Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.



Crimp contacts ordered separately (see pages 102-103)



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 Ø3.56±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.

FEMALE COMPLIANT PRESS-FIT CONNECTOR WITH A.C. PASS-THROUGH

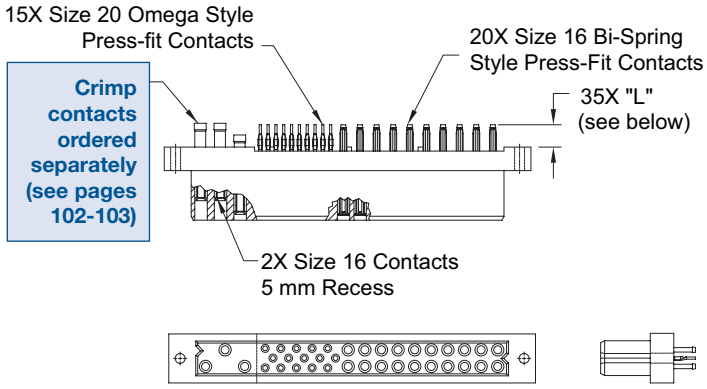
CODE 93 OR 94 WITH MOS* -246.1

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

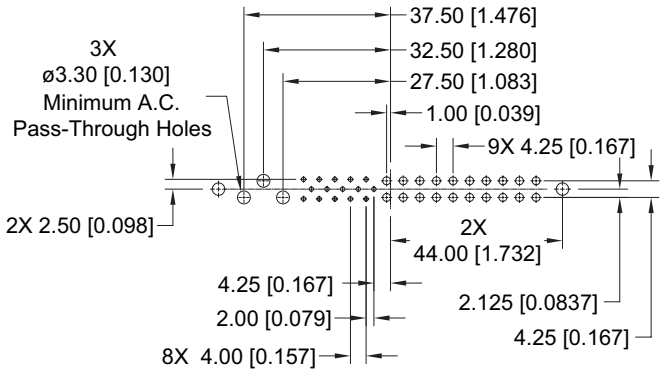
For MOS descriptions, see chart on pages 107-108.

LOW PROFILE PART NUMBER
PCIH38F9300A1-246.1
PCIH38F9400A1-246.1

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.]

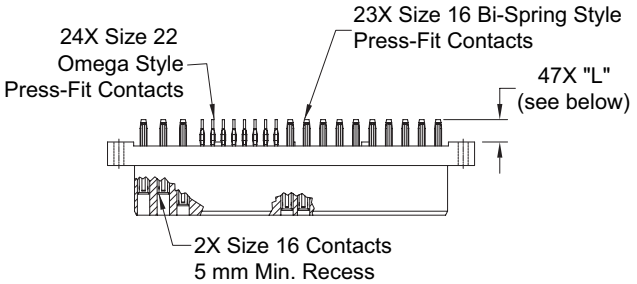
Note: See below for suggested printed board hole sizes, press-fit connector installation tools, and mounting screw options.

FEMALE COMPLIANT PRESS-FIT CONNECTOR

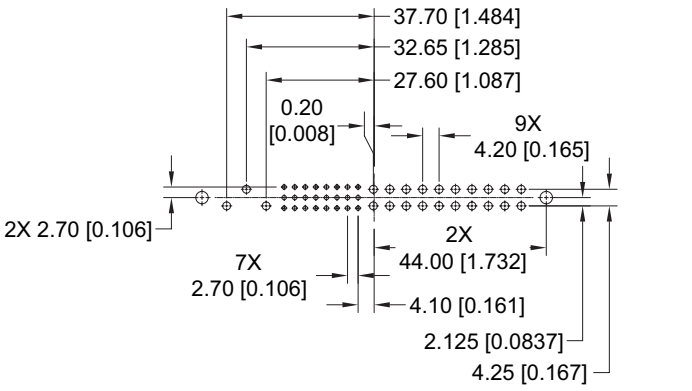
CODE 93 OR 94

STANDARD PART NUMBER
PCIH47F9300A1
PCIH47F9400A1

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 Ø3.56±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.

FEMALE COMPLIANT PRESS-FIT CONNECTOR WITH A.C. PASS-THROUGH

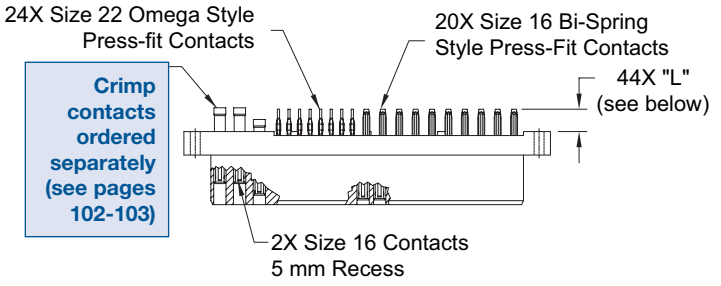
CODE 93 OR 94 WITH MOS* -246.0

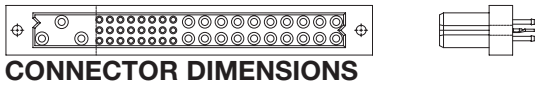
CRIMP CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

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

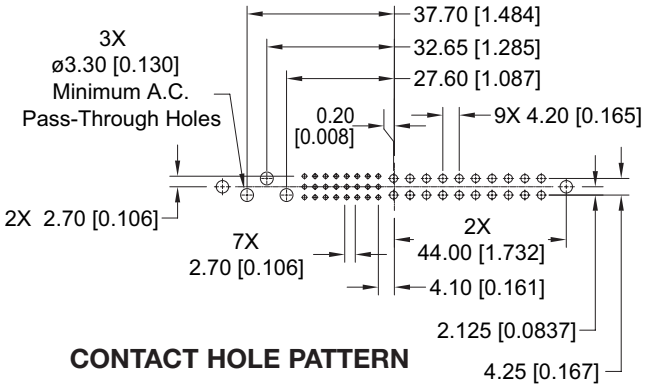
LOW PROFILE PART NUMBER
PCIH47F9300A1-246.0
PCIH47F9400A1-246.0

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 WITH A.C. PASS-THROUGH

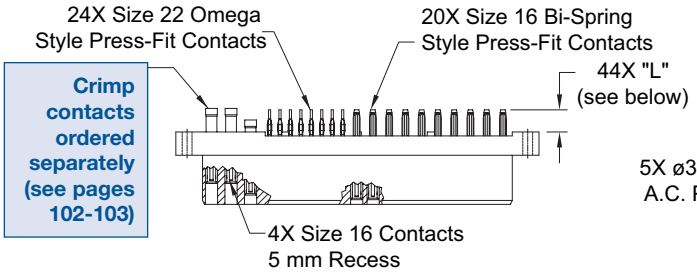
CODE 93 OR 94 WITH MOS* -246.3

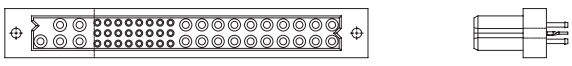
CRIMP CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

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

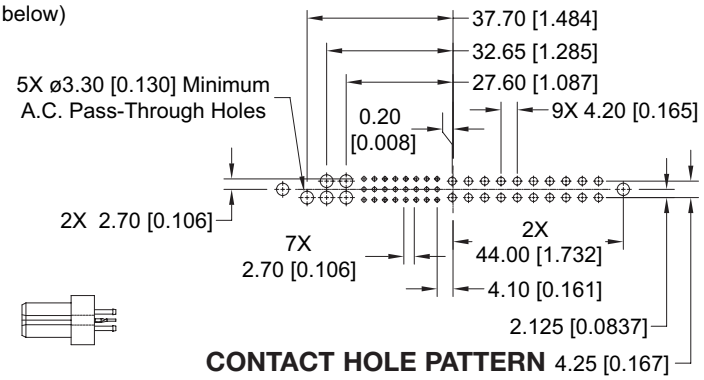
LOW PROFILE PART NUMBER
PCIH49W25F9300A1-246.3
PCIH49W25F9400A1-246.3

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 Ø3.56±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.

PCIH SERIES

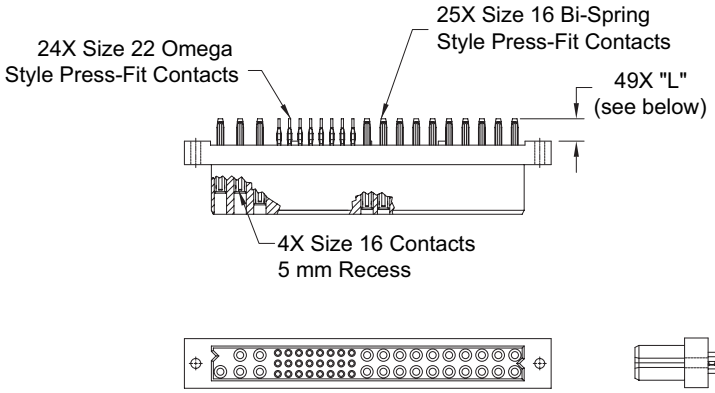
PCIH SERIES

FEMALE COMPLIANT PRESS-FIT CONNECTOR
CODE 93 OR 94 WITH MOS* -379.0

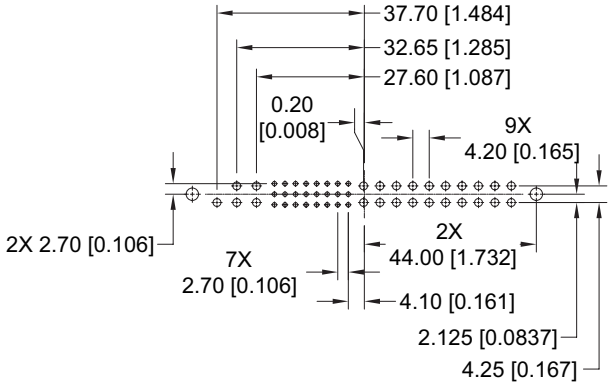
** For MOS descriptions, see chart on pages 107-108.*

STANDARD PART NUMBER
PCIH49W25F9300A1-379.0
PCIH49W25F9400A1-379.0

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.]

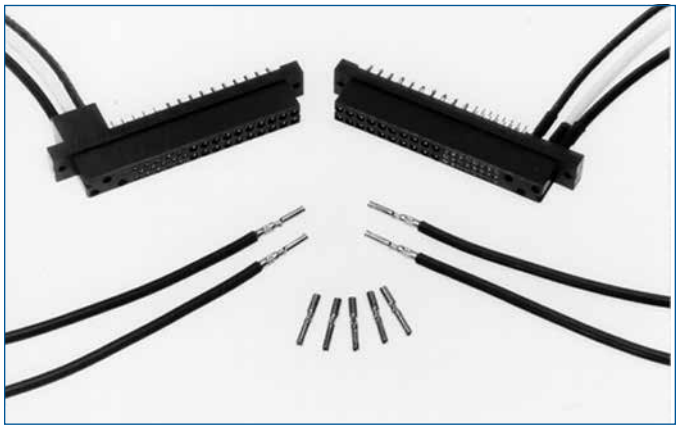
SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø3.56±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.

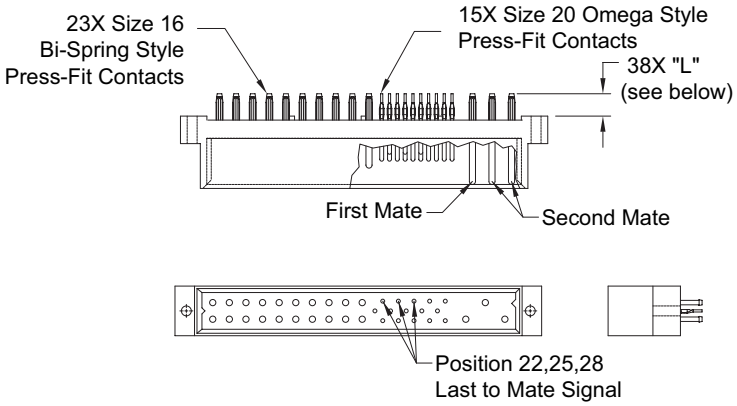


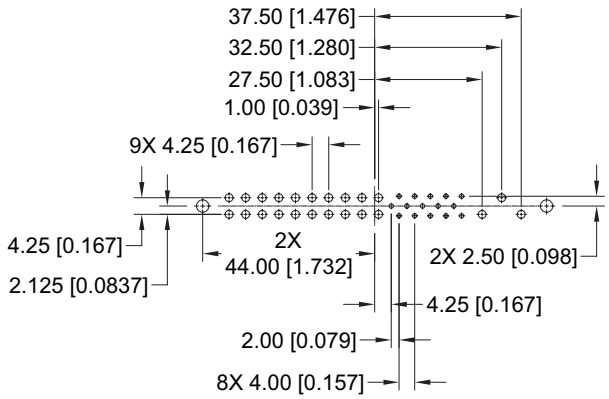
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

MALE COMPLIANT PRESS-FIT CONNECTOR
CODE 93 OR 94

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

STANDARD PART NUMBER
PCIH38M9300A1
PCIH38M9400A1





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.]

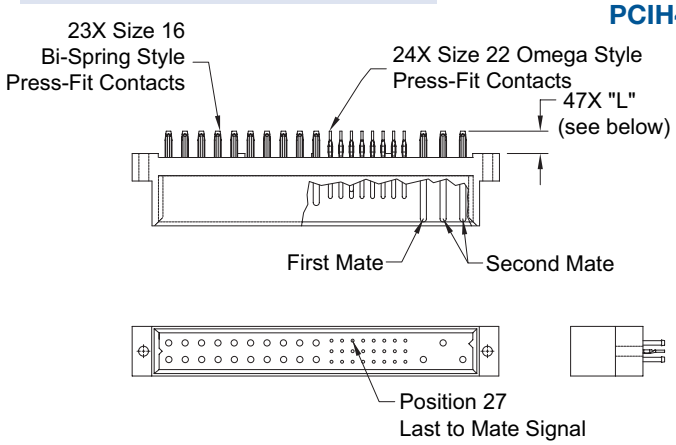
CONTACT HOLE PATTERN

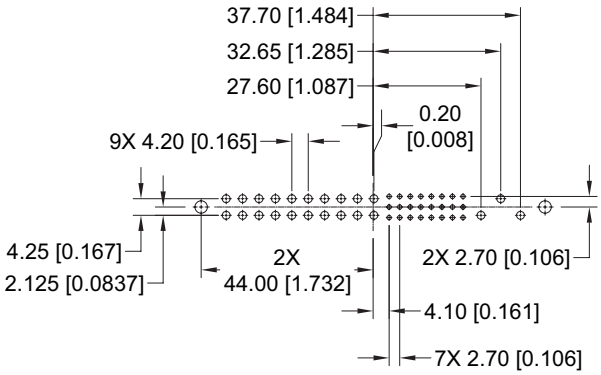
Note: See below for suggested printed board hole sizes, press-fit connector installation tools, and mounting screw options.

MALE COMPLIANT PRESS-FIT CONNECTOR
CODE 93 OR 94

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

STANDARD PART NUMBER
PCIH47M9300A1
PCIH47M9400A1





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 Ø3.56±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.

MALE COMPLIANT PRESS-FIT CONNECTOR

CODE 93 OR 94 WITH MOS* -378.0

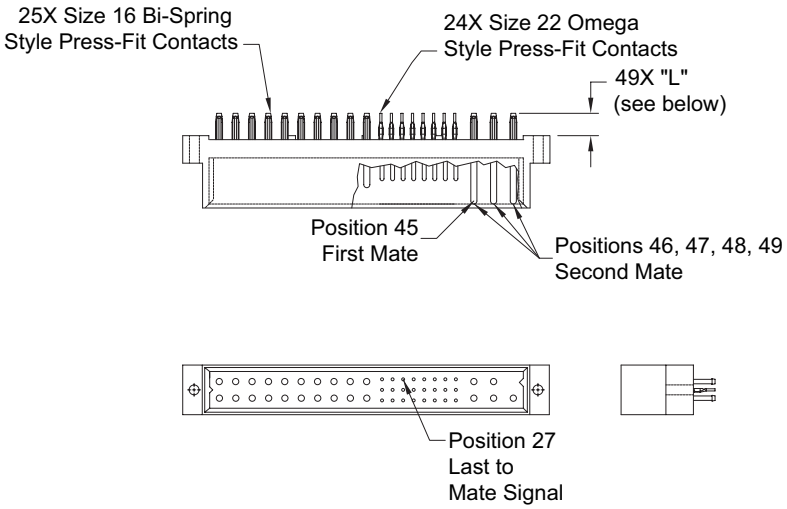
Positronic recommends the practice of using mounting hardware to secure connector to printed circuit board.

STANDARD PART NUMBER

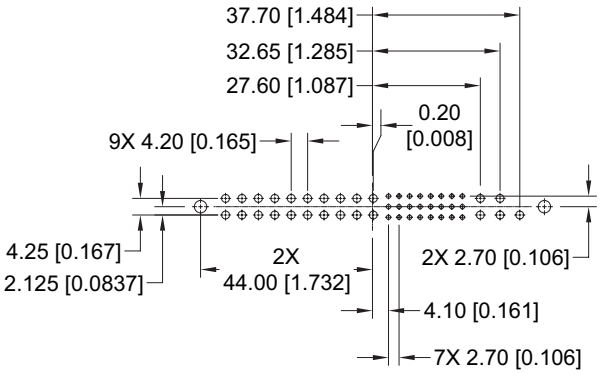
PCIH49W25M9300A1-378.0

PCIH49W25M9400A1-378.0

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



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.]

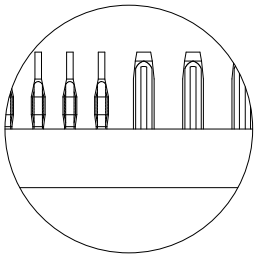
SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø3.56±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.



ENLARGED DETAIL OF COMPLIANT
CONTACT TERMINATIONS

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

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	PCIH	47	F	93	0	0	A1	/AA	____	

STEP 1 - BASIC SERIES

PCIH - PCIH Series

STEP 2 - CONNECTOR VARIANTS

38 - 23 size 16 contacts and 15 size 20 contacts
38R - 23 size 16 contacts and 15 size 20 contacts inverted termination style, use with contact type “4”
47 - 23 size 16 contacts and 24 size 22 contacts
47R - 23 size 16 contacts and 24 size 22 contacts inverted termination style, use with contact type “4”
49W25 - 25 size 16 contacts and 24 size 22 contacts
*1 49W25R - 25 size 16 contacts and 24 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 systems 1 and 2.
4 - Solder, Right Angle (90°) Printed Board Mount with 2.68 [0.106] tail extension for connection systems 1, 2, 3 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 20 or size 22 Straight Printed Board Mount for use with board thicknesses of 2.29 to 4.45 [0.090 to 0.175]. Connection systems 1 and 2.
94 - Press-Fit, Compliant Termination size 16 and size 20 or size 22 Straight Printed Board Mount for use with board thickness of 4.45 minimum [0.175 minimum]. Connection systems 1 and 2.

STEP 5 - MOUNTING STYLE

0 - Not Applicable

See page 105 for mounting screw options.

STEP 6 - HOODS

0 - Not applicable

*1 Female contact variants are readily available. Contact Technical Sales for availability of male contact variants.

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 - 1.27µ [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 8 - ENVIRONMENTAL COMPLIANCE OPTIONS

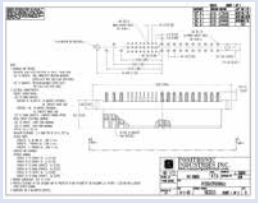
/AA - RoHS Compliant

NOTE: If compliance to environmental legislation is not required, this step will not be used.
Example: PCIH47F9300A1

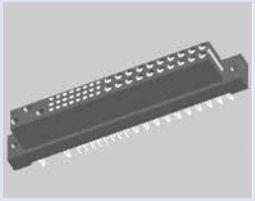
STEP 9 - SPECIAL OPTIONS

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

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.



2D Drawing



3D model

PCIH SERIES