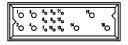
GENERAL PRODUCT INFORMATION

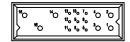
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The PCIC Series encompasses all of the features of the PCIH Series in a **1U** package. Reliability, high current capacity and many system management connections make the PCIC Series ideal for use in telecom, computer, information systems and industrial applications.

PCIC SERIES CONTACT VARIANTS

FACE VIEW OF MALE AND REAR VIEW OF FEMALE

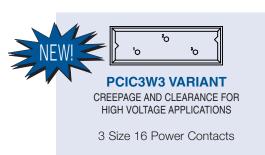




PCIC16W7 VARIANT

PCIC16W7R VARIANT (Inverted Termination)

7 Size 16 Power Contacts and 9 Size 22 Signal Contacts







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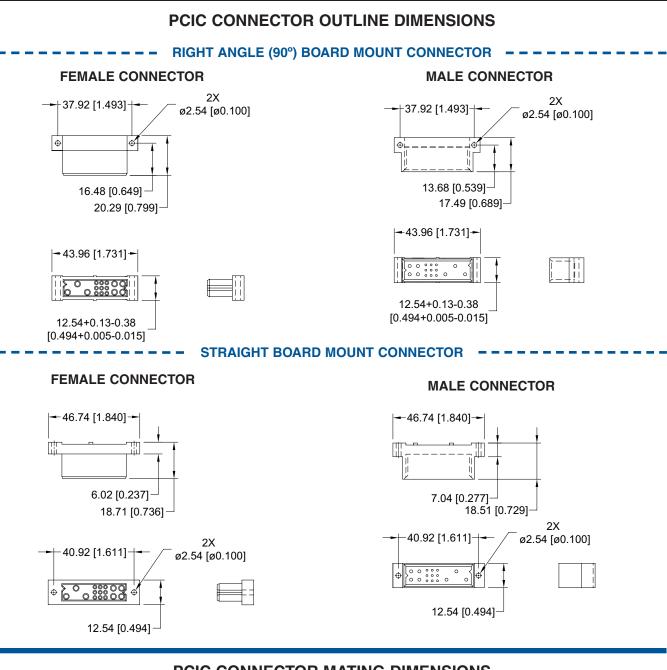
TECHNICAL CHARACTERISTICS

Compact Power Connectors

MATERIALS AND FINISHES: Insulator:	Glass-filled polyester, UL 94V-0,	Removable Contacts:	Install contact from rear of insulator; release from front of
Contacts:	blue color. Size 16 contacts: High conduc- tivity precision-machined copper alloy. Size 22 contacts: Precision-machined copper		insulator. Size 16 and 22 female contacts feature "Closed Entry" design for highest reliability.
	alloy. Plating: gold flash over	Removable Contact Retention in Connector Body:	
	nickel. Other plating options available, refer to Step 7 on page 101.	Size 16 Contacts: Size 22 Contacts:	67 N [15 lbs.] 27 N [6 lbs.]
Mounting Screws: Jackscrews:	Steel, zinc plated. Stainless steel, passivated.	Fixed Contacts:	Printed board terminations, both straight and right angle (90 ²). Size 16 female contacts feature
ELECTRICAL CHARACTERISTICS:			"Closed Entry" design. Size 22
PCIC Contact Current Ratings, per UL 1977 See Temperature Rise Curves on page 6 for details.			feature rugged "Robi-D Open Entry" contact design. "Closed
PCIC3W3: Size 16 Power Contacts:	32 amperes continuous,		Entry" contacts available, con- sult Technical Sales.
PCIC16W7:	all contacts under load.	Fixed Contact Retention	
Size 16 Power Contacts: Positions 14, 15, and 16:	40 amperes continuous,	in Connector Body: Size 16 Contacts:	45 N [10 lbs.]
Positions 1 through 4:	all contacts under load. 30 amperes continuous,	Size 22 Contacts:	27 N [6 lbs.]
Size 22 Signal Contacts:	all contacts under load. 3 amperes nominal rating.	Resistance to Solder Heat:	260°C [500°F] for 10 seconds duration per IEC 512-6, Test
Initial Contact Resistance; maximur			12e, 25-watt soldering iron.
Size 16 Contact: Size 22 Contact:	0.0007 ohms maximum. 0.004 ohms maximum.	Sequential Contact Mating System: PCIC16W7:	First mate contact 14 and last
Size 22 Contact:	Per IEC 512-2, Test 2b.	Consult Technical Sales for custom	mate contact position 5. er specified sequential mating.
Insulator Resistance:	5 G ohms per IEC 512-2, Test 3a.	Safety "Recessed in	, , , ,
Velhama Dua efe	lest oa.	Insulator" Contacts:	The following size 16 contacts are recessed 5mm [0.197 inch]
Voltage Proof: <u>PCIC3W3:</u> <u>PCIC16W7:</u>	5,000 V r.m.s.		below the face of the female connector insulator per safety
Contacts 14, 15, and 16: Contacts 1 through 4:	3,000 V r.m.s. 1,500 V r.m.s.	PCIC16W7:	requirements. Contact positions 15 and 16.
Contacts 5 through 13:	1,000 V r.m.s.	Compliant Terminations:	Size 16 and 22 contacts are available with Compliant
Creepage and Clearance Distance; minimum:			Contact Terminations.
PCIC3W3: PCIC16W7:	7.23mm [0.285 inch]	Printed Board Mounting:	Mounting holes provided in con-
Contact 16 to Contact 14: Contact 15 to Contact 14:	3.2mm [0.126 inch] 3.2mm [0.126 inch]		nector body for printed board mounting. Self-tapping screws are available.
Contact 16 to Signal Contacts: Contact 15 to Signal Contacts:	6.4mm [0.252 inch]	Mechanical Operations:	250 couplings, minimum.
Contact 16 to Contact 15: Contact 14 to Signal Contacts:	2.5mm [0.098 inch] 2.0mm [0.079 inch]	CLIMATIC CHARACTERISTICS: Working Temperature:	-55°C to +125°C.
Working Voltage: PCIC3W3:	2,000 V r.m.s.	working reinperature.	-55 0 10 +125 0.
PCIC16W7:		U.L. Recognized	File #E49351*
Contacts 14, 15 and 16: Contacts 1 through 4:	1,000 V r.m.s. 500 V r.m.s.	CSA Recognized	File #LR54219*
Contacts 5 through 13:	333 V r.m.s.	* U.L. and CNR recogr	nition for PCIC3W3
MECHANICAL CHARACTERISTICS:		is pending, consult	
Blind Mating System:	Male and female connector bod- ies provide "lead-in" for 1.3mm	20NIC INDU	
	[0.050 inch] diametral misalign- ment.		
Polarization:	Provided by connector body design.		RoHS options page 101.
	o o o o o o o	Directive 2002193	

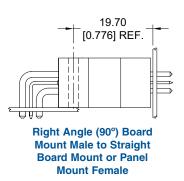
CONNECTOR OUTLINE AND MATING DIMENSIONS

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PCIC CONNECTOR MATING DIMENSIONS

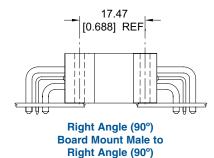
(FULLY MATED)



Compact

Connectors

Power



Board Mount Female

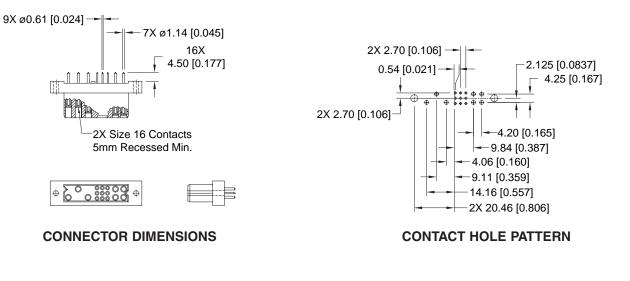


STRAIGHT SOLDER CONNECTOR, FEMALE

Compact Power Connectors

FEMALE STRAIGHT SOLDER CONNECTOR CODE 3

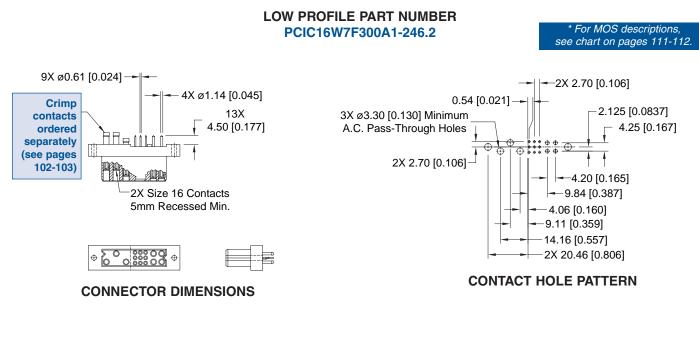
STANDARD PART NUMBER PCIC16W7F300A1



Note: See below for suggested printed board hole sizes.

FEMALE STRAIGHT SOLDER CONNECTOR WITH A.C. PASS-THROUGH CODE 3 WITH MOS* -246.2

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



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.

STRAIGHT SOLDER CONNECTOR, MALE

Compact

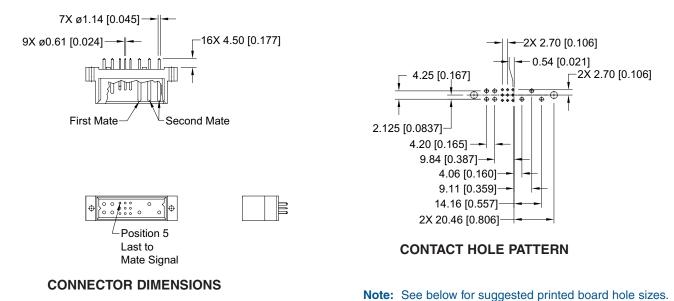
Connectors

Power

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MALE STRAIGHT SOLDER CONNECTOR CODE 3





MALE STRAIGHT SOLDER CONNECTOR WITH JACKSCREW SYSTEM **CODE 3 WITH MOS* -443.2** STANDARD PART NUMBER PCIC3W3M300A1-443.2 For MOS descriptions, see chart on pages 111-112. 3X 3X Ø1.14 [0.045] 4.50 [0.177] 2.125 [0.0837] Æ 2-56UNC-2A 4.25 [0.167] Male Rotating -2X 9.47 [0.373] Jackscrew -2X 20.46 [0.806] CONTACT HOLE PATTERN 0 **CONNECTOR DIMENSIONS**

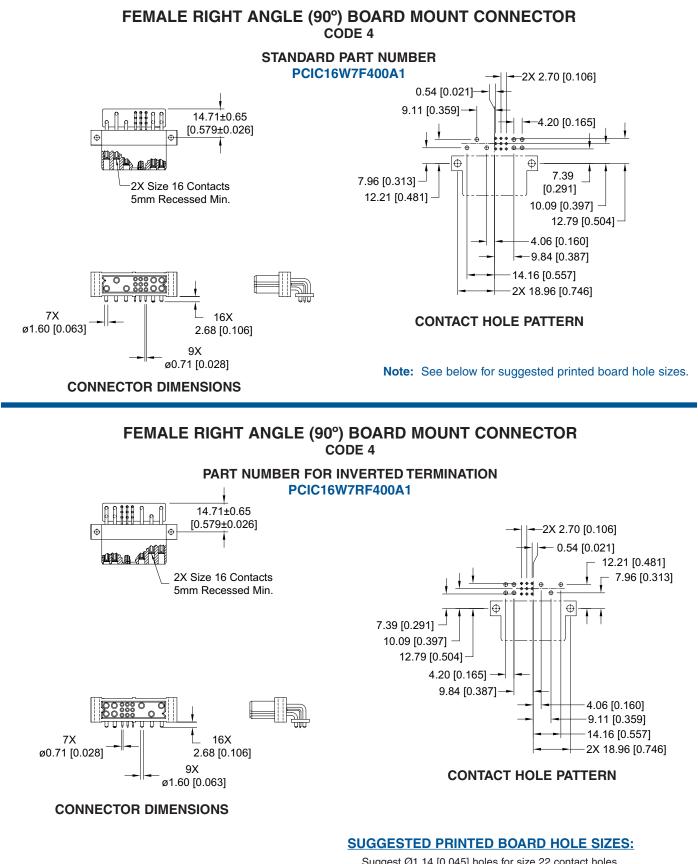
SUGGESTED PRINTED BOARD HOLE SIZES:

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

Compact Power Connectors



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.

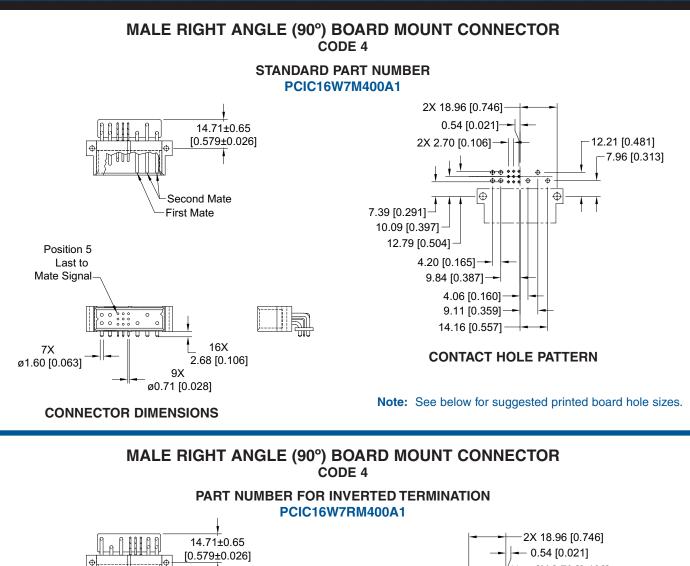
RIGHT ANGLE (90°) BOARD MOUNT CONNECTOR, MALE

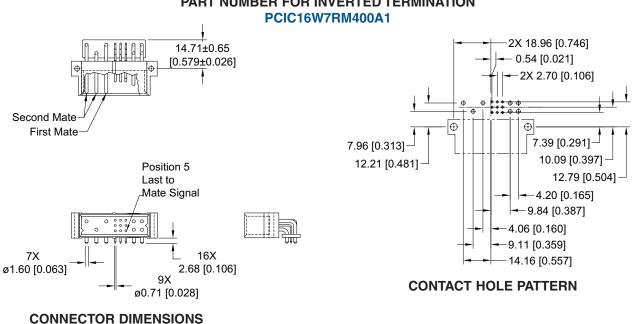
Compact

Connectors

Power

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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.



PANEL MOUNT CONNECTOR. FEMALE

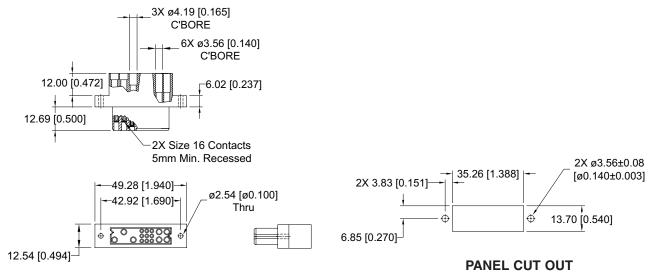
Compact Power Connectors

FEMALE PANEL MOUNT CRIMP CONTACT CONNECTOR

CODE 8

CONTACTS ARE NOT SUPPLIED WITH CONNECTOR AND MUST BE ORDERED SEPARATELY

STANDARD PART NUMBER PCIC16W7F8000



CONNECTOR DIMENSIONS

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

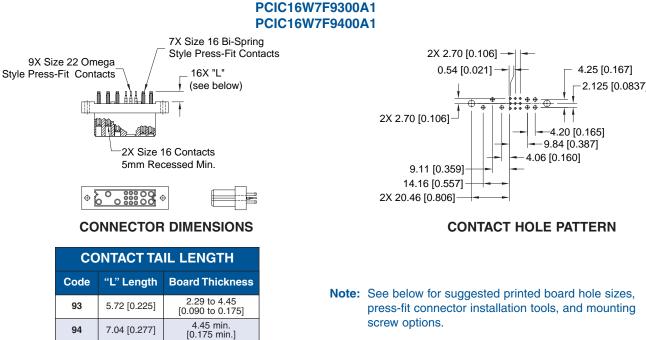
Compact Power Connectors

COMPLIANT PRESS-FIT BOARD MOUNT CONNECTOR, FEMALE

CODE 93 OR 94

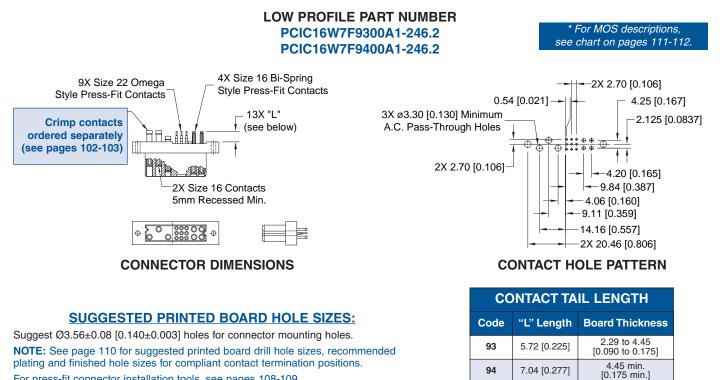
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FEMALE COMPLIANT PRESS-FIT CONNECTOR WITH A.C. PASS-THROUGH CODE 93 OR 94 WITH MOS* -246.2

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



For press-fit connector installation tools, see pages 108-109.

For mounting screw options, see page 108.

DIMENSIONS ARE IN MILLIMETERS [INCHES]. 98 ALL DIMENSIONS ARE SUBJECT TO CHANGE.



COMPLIANT PRESS-FIT BOARD MOUNT CONNECTOR, FEMALE

Compact Power Connectors

FEMALE COMPLIANT PRESS-FIT CONNECTOR WITH JACKSCREW SYSTEM CODE 93 OR 94 WITH MOS* -444.2 STANDARD PART NUMBER PCIC3W3F9300A1-444.2 PCIC3W3F9400A1-444.2 For MOS descriptions, see chart on pages 111-112. 3X Size 16 Bi-Spring 3X "L" Style Press-Fit Contacts (see below) 2.125 [0.0837] 0 4.25 [0.167] 2-56UNC-2B -2X 9.47 [0.373] Female Fixed Jackscrew -2X 20.46 [0.806] **CONTACT HOLE PATTERN**

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.]		

SUGGESTED PRINTED BOARD HOLE SIZES:

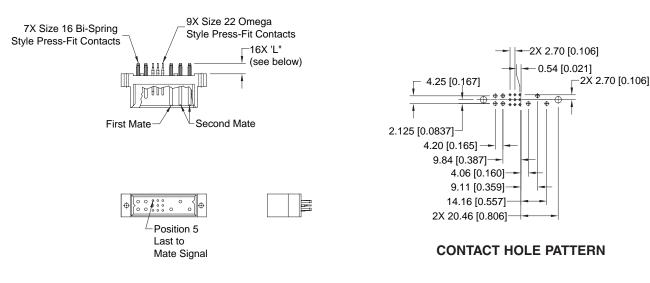
Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes. **NOTE:** See page 110 for suggested printed board drill hole sizes, recommended plating and finished hole sizes for compliant contact termination positions. For press-fit connector installation tools, see pages 108-109. For mounting screw options, see page 108. Compact Power Connectors

COMPLIANT PRESS-FIT BOARD MOUNT CONNECTOR, MALE

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MALE COMPLIANT PRESS-FIT CONNECTOR CODE 93 OR 94

STANDARD PART NUMBER PCIC16W7M9300A1 PCIC16W7M9400A11



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.]		

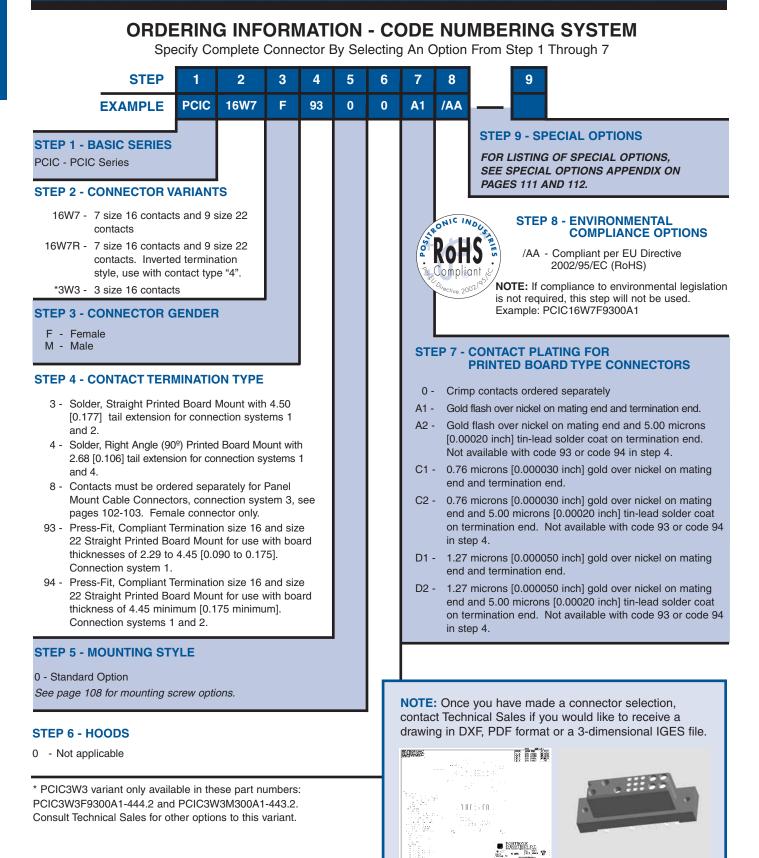
SUGGESTED PRINTED BOARD HOLE SIZES:

Suggest Ø3.56±0.08 [0.140±0.003] holes for connector mounting holes. **NOTE:** See page 110 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 108-109. For mounting screw options, see page 108.



PCIC ORDERING INFORMATION

Compact Power Connectors



SK Drawing

3-dimensional model