PCIC SERIES GENERAL PRODUCT INFORMATION

COMPACT POWER CONNECTOR

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

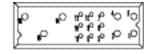
FACE VIEW OF MALE AND REAR VIEW OF FEMALE

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COMPACT

POWER

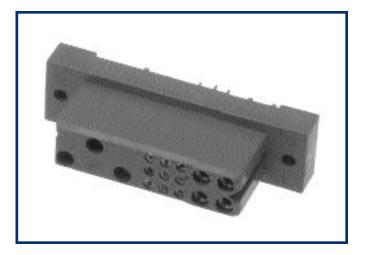
CONNECTOR



PCIC16W7 VARIANT

PCIC16W7R VARIANT (inverted)

7 Size 16 Power Contacts and 9 Size 22 Signal Contacts



PCIC TECHNICAL CHARACTERISTICS

COMPACT POWER CONNECTOR

MATERIALS AND FINISHES:		MECHANICAL CHARACTERI	STICS
Insulator:	Glass-filled polyester, UL 94V-0, blue color.	Blind Mating System:	Male and female connector bod- ies provide "lead-in" for 1.3mm [0.050 inch] diametral misalign-
Contacts:	High conductivity precision- machined copper alloy with gold		ment.
	flash over nickel plate. Other finishes available upon request.	Polarization:	Provided by connector body design.
Mounting Screws:	Steel, zinc plated.	Fixed Contacts:	Printed board terminations, both straight and right angle. Size 16
ELECTRICAL CHARACTERIS	TICS:		female contacts feature "Closed
PCIC Contact Current Ratings			Entry" design. Size 22 feature
Consult Technical Sales for Tempera Size 16 Power Contacts:	ture Rise Curve details.		rugged "Robi-D" design.
Positions 14, 15, and 16:	40 amperes continuous,	Fixed Contact Retention	
·····	all contacts under load.	in Connector Body:	
Positions 1 through 4:	28 amperes continuous,	Size 16 Contacts:	45 N [10 lbs.]
	all contacts under load.	Size 22 Contacts:	27 N [6 lbs.]
Size 22 Signal Contacts:	3 amperes nominal rating.	Resistance to Solder Heat:	260°C [500°F] for 10 seconds
Initial Contact Resistance: maximum:			duration per IEC 512-6, Test
Size 16 Contact:	0.0007 ohms maximum.		12e, 25-watt soldering iron.
Size 22 Contact:	0.004 ohms maximum.		
	Per IEC 512-2, Test 2b.	Sequential Contact MatingSystem: PCIC16W7:	First mate contest 14 and last
Insulator Resistance:	5 G ohms per IEC 512-2,	PCICTOWY:	First mate contact 14 and last mate contact position 5.
Insulator Resistance.	Test 3a.	Consult Technical Sales for custon	
			, , , ,
Voltage Proof:		Safety "Recessed in	
PCIC16W7:		Insulator" Contacts:	The following size 16 contacts
Contacts 14, 15, and 16:	3,000 V r.m.s. 1,500 V r.m.s.		are recessed 5mm [0.197 inch] below the face of the female
Contacts 1 through 4: Contacts 5 through 13:	1,500 V r.m.s. 1,000 V r.m.s.		connector insulator per safety
Contacts 5 through 15.	1,000 v 1.11.3.		requirements.
Creepage and Clearance		PCIC16W7:	Contact positions 15 and 16.
Distance; minimum:			
PCIC16W7:		Compliant Terminations:	Size 16 and 22 contacts are
Contact 16 to Contact 14:	3.2mm [0.126 inch]		available with Compliant
Contact 15 to Contact 14:	3.2mm [0.126 inch]		Contact Terminations.
Contact 16 to Signal Contacts Contact 15 to Signal Contacts		Printed Board Mounting:	Mounting holes provided in con-
Contact 16 to Contact 15:	2.5mm [0.098 inch]	Thinked Doard Mounting.	nector body for printed board
Contact 14 to Signal Contacts			mounting. Self-tapping screws are available.
Working Voltage:			
PCIC16W7:		Mechanical Operations:	250 couplings, minimum.
Contacts 14, 15 and 16:	1,000 V r.m.s.	OLIMATIC OLIADA OTEDIOTI	
Contacts 1 through 4:	500 V r.m.s. 333 V r.m.s.	CLIMATIC CHARACTERISTIC	-55°C to +125°C.
Contacts 5 through 13:	555 V 1.III.S.	Working Temperature:	-00 0 10 +120 0.

U.L., C.S.A., and TUV recognitions are in process. Consult Technical Sales for updated information.

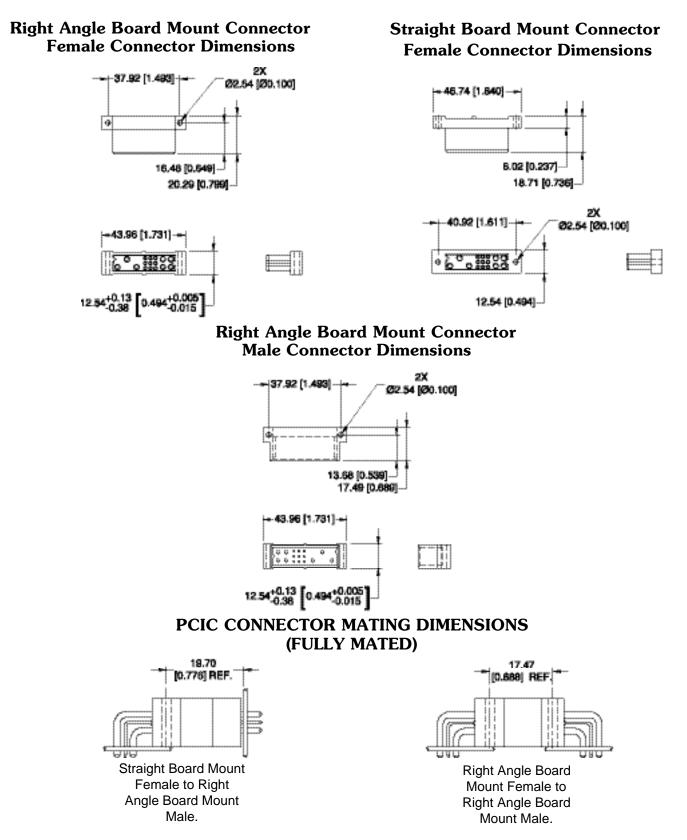
DIMENSIONS ARE IN MILLIMETERS [INCHES] ALL DIMENSIONS ARE SUBJECT TO CHANGE.

COMPACT PCIC CONNECTOR OUTLINE AND **POWER** MATING DIMENSIONS **CONNECTOR CONNECTOR**

PCIC CONNECTOR OUTLINE DIMENSIONS

COMPACT

POWER

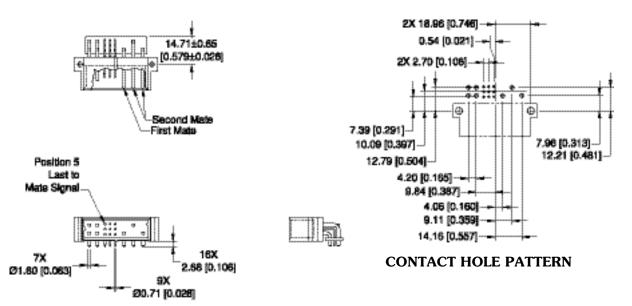


DIMENSIONS ARE IN MILLIMETERS [INCHES] ALL DIMENSIONS ARE SUBJECT TO CHANGE.

PCIC RIGHT ANGLE BOARD MOUNT CONNECTORS, MALE

COMPACT POWER CONNECTOR

STANDARD PART NUMBER: PCIC16W7M400A1



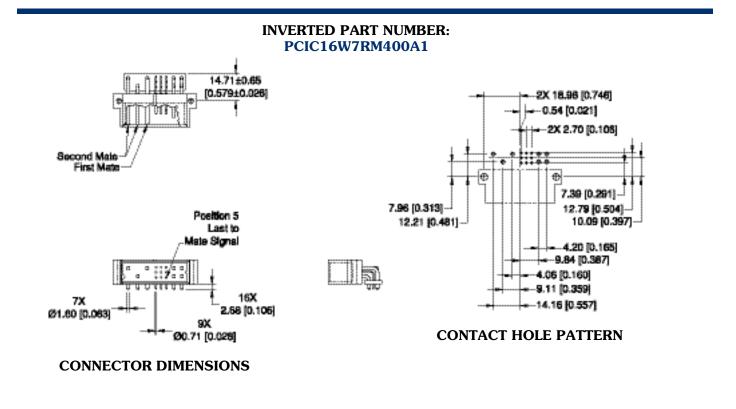
CONNECTOR DIMENSIONS

COMPACT

POWER

CONNECTOR

Note: See below for suggested printed board hole sizes.



SUGGESTED PRINTED BOARD HOLE SIZES:

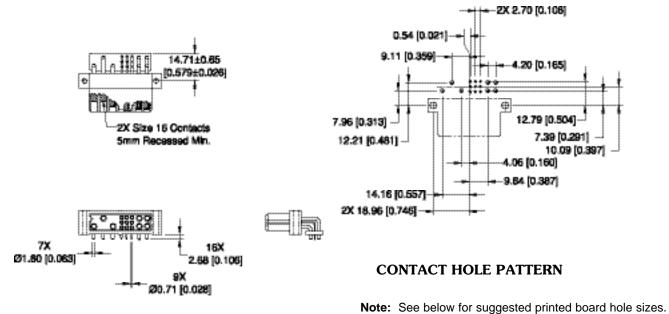
 $\begin{array}{l} Suggest \ \ensuremath{\emptyset}1.14 \ [0.045] \ holes \ for \ size \ 22 \ contact \ holes.\\ Suggest \ \ensuremath{\emptyset}2.03 \ [0.080] \ holes \ for \ size \ 16 \ contact \ holes.\\ Suggest \ \ensuremath{\emptyset}3.56 {\pm}0.08 \ [0.140 {\pm}0.003] \ holes \ for \ connector \ mounting \ holes.\\ \end{array}$

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



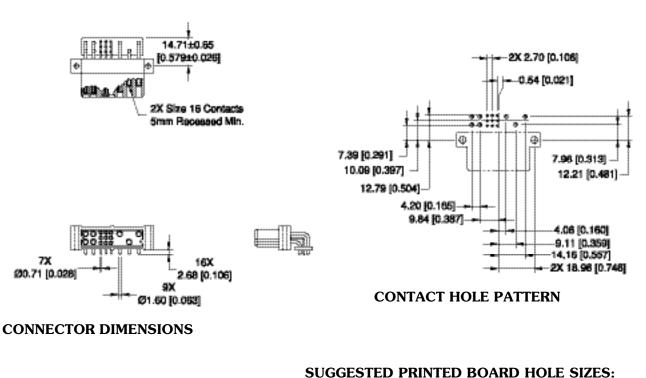
COMPACT POWER CONNECTOR

STANDARD PART NUMBER: PCIC16W7F400A1



CONNECTOR DIMENSIONS

INVERTED PART NUMBER: PCIC16W7RF400A1



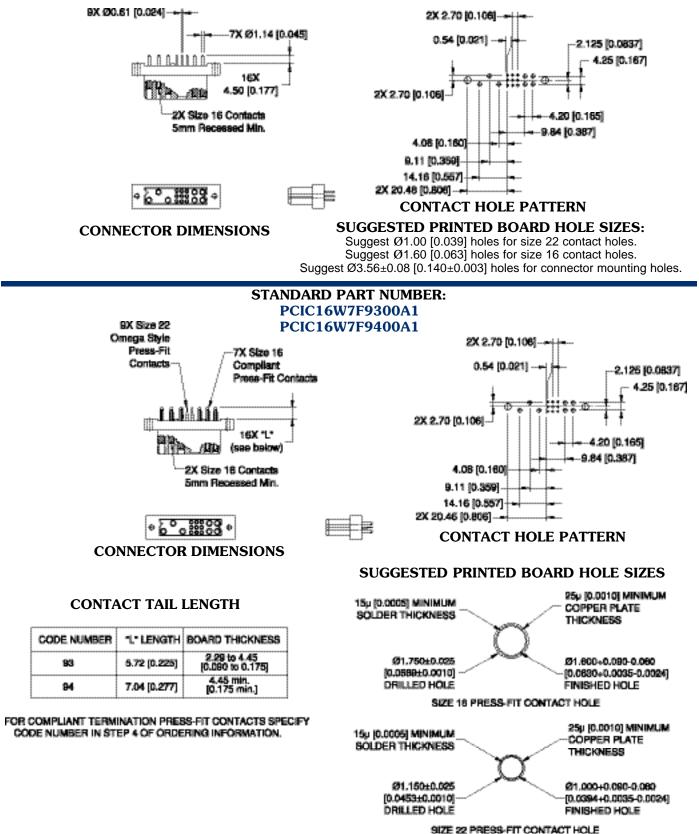
DIMENSIONS ARE IN MILLIMETERS [INCHES] Suggr ALL DIMENSIONS ARE SUBJECT TO CHANGE. Suggr

 $\begin{array}{l} Suggest \ \ensuremath{\emptyset}1.14 \ [0.045] \ holes \ for \ size \ 22 \ contact \ holes.\\ Suggest \ \ensuremath{\emptyset}2.03 \ [0.080] \ holes \ for \ size \ 16 \ contact \ holes.\\ Suggest \ \ensuremath{\emptyset}3.56 {\pm}0.08 \ [0.140 {\pm}0.003] \ holes \ for \ connector \ mounting \ holes.\\ \end{array}$

COMPACT POWER CONNECTOR

PCIC STRAIGHT SOLDER AND COMPLIANT BOARD MOUNT CONNECTORS, FEMALE

STANDARD PART NUMBER: PCIC16W7F300A1

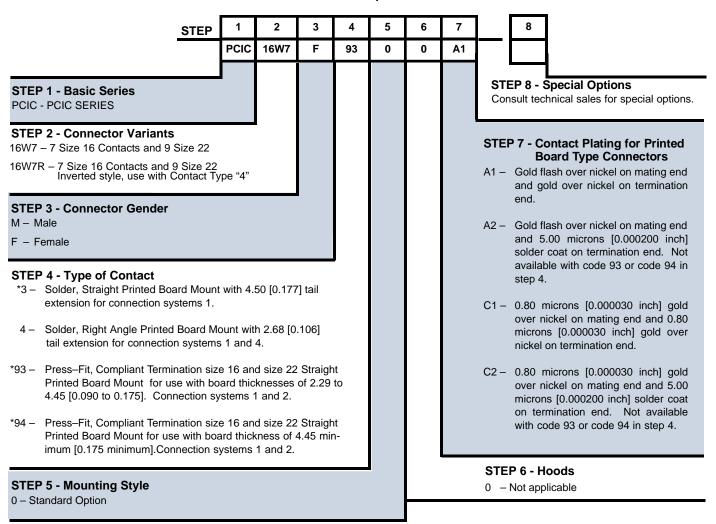


DIMENSIONS ARE IN MILLIMETERS [INCHES] ALL DIMENSIONS ARE SUBJECT TO CHANGE.

SUGGEST Ø 3.56±0.08[0.140±0.003] HOLES FOR CONNECTOR MOUNTING POSITIONS.

ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 8 Insert "0" When Step Is Not Used



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