

# Positronic® - The Leader in Power Connector Solutions for PICMG Applications

For nearly two decades, Positronic has been a leading edge power connector manufacturer for PICMG technology-based applications such as AdvancedTCA<sup>®</sup>, CompactPCI<sup>®</sup>, MicroTCA<sup>®</sup>, and PICMG 3.8. Despite copy cat products, Positronic continues to offer the broadest selection of power connectors for these applications. Visit <a href="https://www.connectpositronic.com">www.connectpositronic.com</a> for more details.

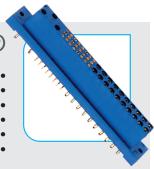


# AdvancedTCA<sup>®</sup>

- Dedicated Zone 1 power interface for plug-in cards
- Closed entry female contacts for ruggedized applications
- Heavy gold contact options
- Available from stock at www.posishop.com

# Compact PCI®

- P47 version for CompactPCI applications •
- Features include AC/DC power input, power output at various voltages and signal controls
  - Five package sizes available •
  - Closed entry female contacts for ruggged applications
    - Heavy gold plated contact options •
  - Widest variety of gender / termination combinations in the marketplace •





# MicroTCA (μTCA)<sup>®</sup>

- Compliant to MTCA.0, MTCA.1 & MTCA.3 specifications
- High reliability, precision machined contacts
- Low contact resistance
- Minimized height above printed circuit board
- Single and dual port configurations
- Power contacts carry 50 amps minimum at a 30°C temperature rise (prior to derating)

### **PICMG 3.8**

- Compliant to PICMG 3.8 requirements Intended for power and system management use
  - Blind mating capability
    - 19.8 mm wide •





Plug-in boards used in today's computing platforms must provide higher reliability, greater functionality and require more power than ever before. Many next generation platforms deliver bulk voltage to boards. DC to DC converters are used to supply the various voltage requirements on the board. This allows systems to adapt as semiconductor voltages change.

The VPB Series was developed as a dedicated interface between backplanes and boards. The connector is capable of providing dual redundant power, system management and high voltage auxiliary circuits to each slot within the platform. The connector's outstanding blind mating capability can be used to align the board during insertion. The VPB Series is compliant to PICMG 3.0, AdvancedTCA®, Zone 1 connector requirements.





www.advancedtca.com

www.picmg.com

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> Visit our web site for the latest catalog updates and supplements at http://www.connectpositronic.com/design-tools/catalogs/

Positronic Industries' **FEDERAL SUPPLY CODE** (Cage Code) FOR MANUFACTURERS is 28198

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#4,900,261<sup>†</sup> #5,255,580 #5,329,697 #6.260.268 #6.835.079 #7.115.002

TPatented in Canada, 1992 Other Patents Pending



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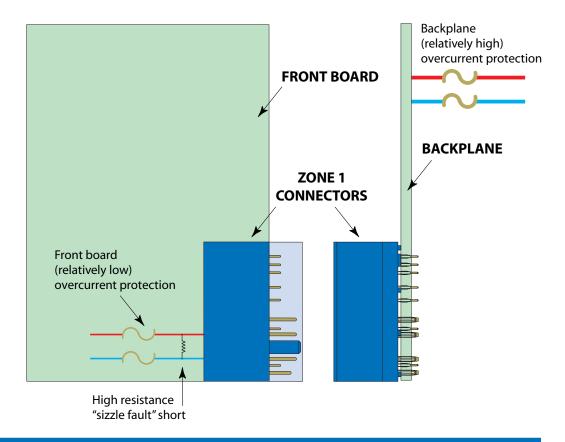
#### About the cover:

For more information about the products shown on the front cover, visit the following web sites:

- Rittal backplane (top left) http://www.rittal-corp.com
- Diversified Technology, Inc ATS1160 (middle left) http://www.dtims.com
- F9 Systems, Inc. AdvancedTCA Thermal Blade™ (bottom left) http://www.f9-systems.com
- GE Fanuc Embedded Systems AT4-AMC-1 carrier blade (bottom left) http://www.gefanucembedded.com

# "SIZZLE FAULT"

A high resistance short between a front board's overcurrent protection and the backplane's overcurrent protection could allow high currents to be drawn through the Zone 1 Power Connector indefinitely. These currents could reach a value that is slightly less than the overcurrent protection for the entire backplane.



# Zone 1 backplane connectors must survive sizzle fault conditions when tested per PICMG 3.0, R3.0, Section B.4.2.4.

- Conditions: IEC 60512-3, Test 10d
- The mated set of connectors (specimens) shall be comprised of a Front Board connector with right angle (90°) press-in terminations and a backplane connector having press-in terminations
- Standard atmospheric conditions
- Ambient temperature shall be 55 degrees C
- Contact positions 28 and 33 shall be energized at 10 amperes through a circuit path sized to simulate a standard PICMG 3.0 frontboard/backplane
- Contact positions 29 and 34 shall be energized at 50 amperes through a circuit path sized to simulate a standard PICMG 3.0 frontboard/backplane
- There shall be a one hour stabilization time after test set up
- Test time shall be four hours after one hour stabilization period
- After completion of test, connectors shall be immediately uncoupled
- Requirements after test conditioning:
- Visual inspection of backplane connector shall show no defect that would impair normal operation
- After backplane connectors are allowed to cool to room ambient temperature the connectors shall be mated to fresh Front Board connectors that have right angle (90°) press-in terminations. The mated connector sets shall pass the test requirements of B.4.2.2; B.4.2.3; B.4.2.4; B.4.2.5; and B.4.3.2.

## Positronic's VPB series meets the requirements of this test!

## VPB FEATURES

# Positronic's Blue Connectors are Green

Energy is essential to everyone. Often we do not give thought to where energy comes from or how much we consume until energy is not readily available.

Energy has become an area of focus for governments, private industry, and citizens. Enhanced methods of producing energy from traditional sources, development

of new energy sources and conservation of energy from all sources have become more crucial than ever before.

Across the world, the electronic equipment that we all rely upon in our daily lives consumes a vast amount of energy. An unavoidable waste of energy occurs when power is distributed throughout electronic equipment. As electrical current flows through conductors and connectors, unwanted heat is generated in proportion to the amount of electrical resistance encountered.

Lowering resistance in connector contacts and conductors will reduce the amount of heat generated, and result in less wasted energy. Additional energy will be saved, as cooling systems will have less heat to draw out of the equipment.

In the past, the primary metric for power connectors has been contact current ratings. In the future, contact resistance may become equally important. While it is true that contact resistance and contact current ratings are closely associated, contact current ratings cannot be used to quantify the energy consumed by contacts.

Current ratings are based on the temperature rise of a connector or contact at a specific current level. A connector design or test method allowing relatively rapid heat dissipation may yield a reasonable temperature rise, while a relatively high amount of energy is still being wasted.

Within the connector industry, there are a variety of test methods used to quantify a particular performance metric. Different test methods can yield different values for the same metric. This lack of uniformity can be confusing to connector users who are trying to compare connectors offered by various manufacturers. Third party assessment can give connector users a common point of reference when making connector choices.

Assessors use contact resistance as the metric to determine the relative efficiency of connector contacts. These assessments verify the claims made by manufacturers.

Once the assessment is made, the assessor issues a statement that will aid power connector users in evaluating contact efficiency as it relates to energy consumption. As an example, the Positronic VPB series size 16-power contacts recently underwent evaluation. The contact resistance was found to be less than one milliohm This low contact resistance is achieved by use

of high conductivity contact materials. In addition, Positronic's Large Surface Area (LSA) contact system is utilized as the interface between male and female power contacts in VPB series connectors.

The VPB series was designed for use as the Zone 1 power connector in AdvancedTCA (ATCA) telecommunication computing systems. Zone 1 connectors provide power from backplanes to front boards in ATCA chassis. The low contact resistance of Positronic's VPB series provides

energy savings opportunities in any application using this connector.

The following formula verifies the energy savings of a lower resistance contact at a given current: Power Consumption (Watts) = Current Flow<sup>2</sup> (Amperes<sup>2</sup>) X Contact Resistance (Ohms). Contact resistance has a one-to-one effect on power consumption. If, the contact resistance is reduced by half, the power consumption is reduced by half.

Low resistance power contacts also provide benefits in systems sensitive to voltage drop. This is demonstrated in the following formula: Voltage drop across contact pairs = Current Flow (Amperes) X Contact Resistance (Ohms). Once again, contact resistance has a one-to-one effect. Reducing the contact resistance by half reduces voltage drop by half.

Higher energy costs and government legislation will cause energy conservation efforts to continue to intensify. If we consider the vast numbers of power contacts in electronic equipment around the world, it is clear how lower contact resistance can play a role in meeting energy conservation goals. Positronic utilizes high conductivity contact materials and unique contact interfaces to provide low contact resistance in our power connector products. To learn more about these products, visit connectpositronic.com.

# **FEATURES**

- ✓ Average power contact resistance is less than 0.001 ohms
- ✓ Average signal contact resistance is less than 0.005 ohms
- √ RoHS compliant

#### VPB SERIES TECHNICAL CHARACTERISTICS

#### **MATERIALS AND FINISHES:**

Connector Insert: Glass-filled polyester, UL 94V-0,

blue color.

Contacts: Precision-machined copper alloy with gold flash over nickel plate.

Other finishes available upon

request.

Size 22 female precision-stamped and formed press-fit contacts are available, contact Technical

Sales.

#### **MECHANICAL CHARACTERISTICS:**

Blind Mating System: Male and female connector

bodies provide "lead-in" for 2.0 mm [0.078 inch] diametral

misalignment.

**Polarization:** Provided by connector body

design.

**Fixed Contacts:** Printed board mount terminations,

both straight and right angle (90°). Size 16 female contacts feature "Closed Entry" design. Size 22 female contacts feature rugged open entry design. "PosiBand" closed entry contacts are optional.

Fixed Contact Retention in Connector Body:

**Printed Board Mounting:** 

 Size 16 Contacts:
 31 N [7 lbs.]

 Size 22 Contacts:
 25 N [5 lbs.]

Sequential Contact First mate contacts 25, 26, 28 29,

Mating System: 30 and 31. Second mate contact 33. Third mate contact 34.

Contacts 1-24 mate before 27 and 32. Last mate contacts 27

and 32.

Power to be enabled through a last mate contact within VPB Series or another connector.

Consult Technical Sales for customer specified sequential mating.

Mounting holes provided in connector body for printed board. Self-tapping screws are available, see ordering information page.

Mechanical Operations: 250 couplings, minimum.

#### **ELECTRICAL CHARACTERISTICS:**

Contact Current Ratings,

per UL 1977:

Size 16 Power Contacts: 30 amperes continuous, all

contacts under load.

on page 9 for details.

See temperature rise curve

Size 22 Signal Contacts: 2 amperes nominal rating.

Current Overload Test Tested per PICMG 3.0, R3.0

Section B.4.2.4, see page 4 for

more information.

Initial Contact Resistance:
Termination to termination:

Size 16 Contacts: Average resistance is less than

0.001 ohms. Tested per IEC 60512-

2, Test 2a.

Compliant to PICMG 3.0, R3.0 requirements of 0.0022 ohms maximum. Tested per IEC 60512-

2, Test 2b.

Size 22 Contacts: Average resistance is less than

0.005 ohms. Tested per IEC

60512-2, Test 2a.

Compliant to PICMG 3.0, R3.0 requirements of 0.0085 ohms maximum. Tested per IEC 60512-

2, Test 2a.

**Insulation Resistance:** 5 G ohms per IEC 60512-2,

Test 3a.

Voltage Proof:

**Contacts 1-16:** 1,000 V r.m.s. **Contacts 17-34:** 2,000 V r.m.s.

Creepage and Clearance Distance; minimum:

Contact positions 1-16 to any

other contact within this group: 0.7mm [0.028 inch]

Contact positions17-24 to any

other contact within this group: 2.5mm [0.098 inch]

Contact positions 25-34 to any

 other contact within this group:
 1.4mm [0.055 inch]

 Contact positions 13-16 to 17-20:
 3.0mm [0.118 inch]

 Contact positions 21-24 to 25, 26:
 4.0mm [0.157 inch]

 Contact positions 25, 26 to 27-29:
 2.0mm [0.079 inch]

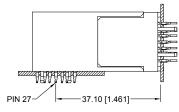
#### **CLIMATIC CHARACTERISTICS:**

**Working Temperature:**  $-55^{\circ}\text{C} \text{ to } +125^{\circ}\text{C}.$ 

UL and C.N.R. Recognized File #E49351

#### **MATING DIMENSIONS**

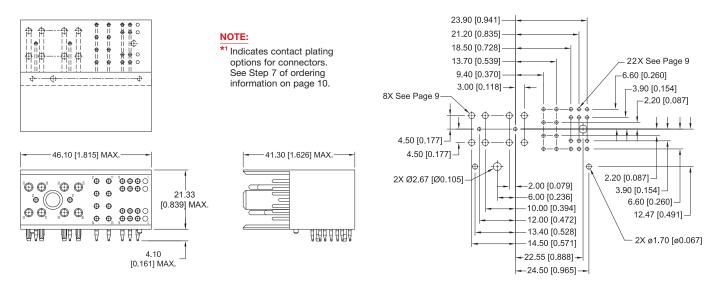
Right Angle (90°) Board Mount Male to Straight Board Mount Female (FULLY MATED)



1 mm [0.039 inch] separation allowed

# MALE CONNECTOR WITH RIGHT ANGLE (90°) COMPLIANT PRESS-FIT PRINTED BOARD MOUNT TERMINATIONS CODE 62

# Typical Part Numbers VPB30W8M6200\*1/AA

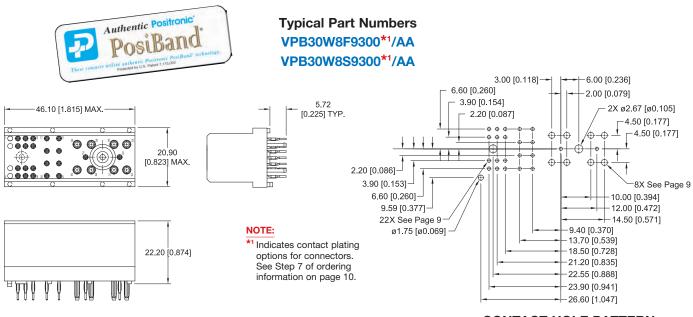


VPB30W8M6200A1/AA shown for reference. Positions 1-4 are not populated with contacts.

#### **CONTACT HOLE PATTERN**

NOTE: See page 9 for suggested printed board hole sizes.

# FEMALE CONNECTOR WITH STRAIGHT COMPLIANT PRESS-FIT PRINTED BOARD MOUNT TERMINATIONS CODE 93



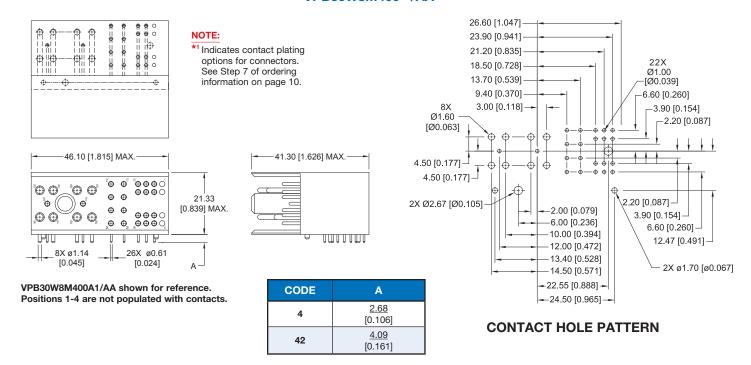
VPB30W8F9300A1/AA shown for reference . Positions 1-4 are not populated with contacts.

CONTACT HOLE PATTERN

NOTE: See page 9 for suggested printed board hole sizes.

#### MALE CONNECTOR WITH RIGHT ANGLE (90°) SOLDER PRINTED BOARD MOUNT TERMINATIONS CODE 4

**Typical Part Numbers** VPB30W8M400\*1/AA

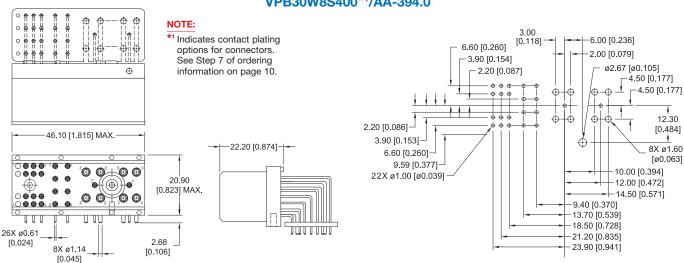


### FEMALE CONNECTOR WITH RIGHT ANGLE (90°) SOLDER PRINTED BOARD MOUNT TERMINATIONS Authentic Positronic

CODE 4 WITH -394.0 MOS



VPB30W8F400\*1/AA-394.0 VPB30W8S400\*1/AA-394.0

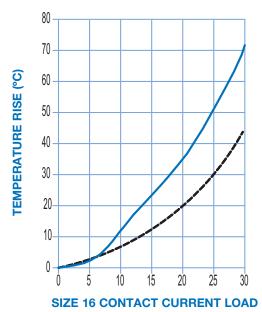


VPB30W8F400A1/AA-394.0 shown for reference. Positions 1-4 are not populated with contacts.

> This connector option is offered to support extender cards. Consult Technical Sales for higher volume requirements.

**CONTACT HOLE PATTERN** 

#### **TEMPERATURE RISE CURVE**



Above curve developed using VPB30W8M6200A1 and VPB30W8F9300A1 connectors.

# EXAMPLES OF POSSIBLE CONTACT ASSIGNMENTS

CONTACT POSITION	FUNCTION				
1-16	Low Speed Hardware Management				
17-24	High Voltage Metallic Test and Ringing Generator Signals				
25	Shelf Ground				
26	Logic Ground				
27/32	Enables for A and B power				
28	A Return				
29	B Return				
30	A Early				
31	B Early				
33	A Voltage				
34	B Voltage				

#### SUGGESTED PRINTED BOARD HOLE SIZES FOR COMPLIANT PRESS-FIT CONNECTORS

Traditionally, tin-lead has been a popular plating for printed circuit board (PCB) holes. However, many PCB hole platings must now be RoHS compliant. Positronic is pleased to offer **PCB HOLE SIZES FOR RoHS** PCB platings as shown below.

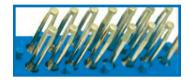
OMEGA & BI-SPRING COMPLIANT PRESS-FIT CONTACT HOLE					
BOARD TYPE	CONTACT SIZE	RECOMMENDED DRILL HOLE SIZE	RECOMMENDED PLATING	FINISHED HOLE SIZES	
TIN-LEAD	22 OMEGA	<u>Ø1.150±0.025</u> [Ø0.0453±0.0010]	15µ [0.0006] minimum solder	<u>Ø1.000+0.090-0.060</u> [Ø0.0394+0.0035-0.0024]	
SOLDER PCB	16 BI-SPRING	ø1.750±0.025 [ø0.069±0.001]	over 25µ [0.0010] min. copper	<u>Ø1.600+0.090-0.060</u> [Ø0.0630+0.0035-0.0024]	

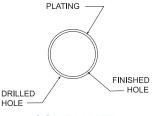
TIN-LEAD	OMEGA	[ø0.0453±0.0010]	15µ [0.0006] minimum solder	[ø0.0394+0.0035-0.0024]		
SOLDER PCB	16 BI-SPRING	<u>Ø1.750±0.025</u> [Ø0.069±0.001]	over 25µ [0.0010] min. copper	<u>Ø1.600+0.090-0.060</u> [Ø0.0630+0.0035-0.0024]		
RoHS PRINTED CIRCUIT BOARD (PCB) PLATING OPTIONS						
COPPER PCB	22 OMEGA	<u>ø1.19±0.025</u> [ø0.047±0.001]	25µ [0.0010] min. copper	<u>ø1.09±0.05</u> [ø0.043±0.002]		
COFFERFOR	16 BI-SPRING	<u>ø1.750±0.025</u> [ø0.069±0.001]	25µ [0.0010] ПШ. сорре	<u>Ø1.600+0.090-0.060</u> [Ø0.0630+0.0035-0.0024]		
IMMERSION	22 OMEGA	<u>ø1.19±0.025</u> [ø0.047±0.001]	0.85±0.15µ [0.000033±0.000006] immersion tin over	<u>ø1.09±0.05</u> [ø0.043±0.002]		
TIN PCB	16 BI-SPRING	<u>ø1.750±0.025</u> [ø0.069±0.001]	25μ [0.0010] min. copper	<u>ø1.600+0.090-0.060</u> [ø0.0630+0.0035-0.0024]		
IMMERSION	22 OMEGA	<u>ø1.19±0.025</u> [ø0.047±0.001]	0.34±0.17µ [0.000013±0.000007] immersion silver over	<u>ø1.09±0.05</u> [ø0.043±0.002]		
SILVER PCB	16 BI-SPRING	<u>ø1.750±0.025</u> [ø0.069±0.001]	25μ [0.0010] min. copper	<u>ø1.600+0.090-0.060</u> [ø0.0630+0.0035-0.0024]		
ELECTROLESS NICKEL/	22 OMEGA	<u>ø1.19±0.025</u> [ø0.047±0.001]	0.05µ [0.000002] min. immersion gold over 4.5±1.5µ [0.000177±0.000059]	<u>ø1.09±0.05</u> [ø0.043±0.002]		
IMMERSION GOLD PCB	16 BI-SPRING	<u>ø1.750±0.025</u> [ø0.069±0.001]	electroless nickel per IPC-4552 over 25µ [0.0010] min. copper	<u>ø1.600+0.090-0.060</u> [ø0.0630+0.0035-0.0024]		

"Omega" Termination utilized on signal contacts



"Bi-Spring" Termination utilized on power contacts





#### COMPLIANT PRESS-FIT CONTACT HOLE

**NOTE:** For PCB plating compositions not shown, consult Technical Sales.

#### ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Selecting an Option From Steps 1 Through 8

EXAMPLE	VPB			4	5	6	7	8	9
	VI D	30W8	F	93	0	0	A1	/AA	-394.0
STEP 1 - BASIC SEP VPB - VP Series  STEP 2 - CONNECTOF *1 30W8 - Contact position for populated variant for Activation backplanes. option for from the standard contact position for Activation for Activ	RIES  R VARI itions 1 ed. Stard dvance . Stand rontboa itions 1 ot popu ost sav dvance i.  R GEN  Sional L ial/Milit FERMIN Board M ount, Pr ount, Pr ount, Pr ount, Pr outs. Fe	JANTS -4 are ndard edTCA® lards4 and elated. ing edTCA® edTCA®  And lated. ing edTCA®  And edTCA®	TYPE older, ter requires r 22W8 for older, ter ss-fit. Ma emale o size 22 st	mination MOS emale mination ale only nly. amped		0	STEP  A1 -  A2 -  C1 - (  C2 - (   C2 - (   C2 - (   C3 - (   C4 - (   C2 - (   C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (  C4 - (	STEP  /AA -  Note: create Example of the Example of	STEP 9 - SPECIAL OPTIONS 394.0- Allows for female contact right angle (90°) solder mount.  CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS  8 - ENVIRONMENTAL COMPLIANCE OPTIONS  RoHS compliant  This step should be included to a standard part number. ple: VPB30W8F9300A1/AA  ITACT PLATING (choose plating and on end use requirements) sh over nickel on mating end and on end. sh over nickel on mating end and on end. sh over nickel on mating end and on end. Not available with code 62
0 - None Notes						<b>STEF</b> 0 - N	_		

#### **Notes**

- \*1 VPB series can be supplied with contacts populated in all 34 positions. Use part number VPB34W8\*\*\*\*\*.
- \*2 Female signal contacts are offered in open and closed entry. Closed entry contacts are designed with an unbroken ring at the opening of the contact. This closed entry feature provides higher reliability in environments experiencing higher levels of shock and vibration . Closed entry contacts are also more abuse resistant than open entry designs. VPB Power contacts are always closed entry design.

#### Unless otherwise specified, dimensional tolerances are:

- 1) ±0.13 mm [0.005 inches] for all diameters.
- 2) ±0.38 mm [0.015 inches] for all other dimensions.

Telecordia GR1217 shows a preference that press-fit connectors use auxiliary mounting hardware. Also, the AdvancedTCA® Zone 1 connector serves as the lower alignment feature for front boards. Therefore, the use of mounting hardware is recommended.

However, VPB connectors have been tested to PICMG 3.0. B.5.1.3 requirements, which may guide connector users to omit use of screws. Contact Positronic for test details.

STEEL SCREW PART NUMBER	STAINLESS STEEL SCREW PART NUMBER	THREAD LENGTH					
A4546-7-1-16	A4546-7-6-4	6.35+0.00-0.76 [0.250+0.000-0.030]					
A4546-7-2-16	A4546-7-7-4	7.93+0.00-0.76 [0.312+0.000-0.030]					
A4546-7-3-16	A4546-7-8-4	<u>9.53+0.00-0.76</u> [0.375+0.000-0.030]					
A4546-7-4-16	A4546-7-9-4	<u>11.11+0.00-0.76</u> [0.438+0.000-0.030]					

**MOUNTING SCREWS** 

- · Female compliant press-fit connectors require a press-fit tool, part number 9513-308-1-41, for installation.
- The use of a support tool when installing press-fit connectors is recommended. For female connectors use 9513-400-6-41, for male connectors use 9513-400-8-41.

Install Screw to a

3.50 [0.138] Minimum

5.00 [0.197] Maximum

**Contact technical sales** 

for RoHS compliant

mounting screw

information.

Depth of:

# Other Power Connector Products

To view all products visit

connectpositron

Positronic Industries has a wide variety of power connector products. Let us provide solutions for Power Entry Modules (PEM) and other power distribution needs.



### Scorpion Modular Connector

Build Your Own Connector

Modular tooling produces a one-piece insulator with almost infinite configurations using twenty-one different module types. Power, signal, and shielded contacts are offered. Options include: cooling vents, blind mate, sequential mate, integral locking and connector keying.



### Power Connection Systems

Available with 3 to 30 contacts and utilizes an integral locking system. Offers a wide variety of termination styles and accessories for board to board, cable to board, and panel to cable



## Infinity/Mini-Infinity

For low, medium and high power applications requiring outstanding blind mating capability. Offers mixed contact density, sequential mate contacts, and a wide variety of termination styles.



### Compact Power Connector

The power interface for platforms that utilize IEEE1101.10 form factors including CompactPCI®. Offers a wide variety of sizes and contact variants. Provides for input, output, and system management in a single connector as well as three-level sequential mating.



### Goldfish

For low to mid range power applications that require excellent blind mating. Additional options include float mounts, selective loading and sequential mating.



## DragonFly

High density connectors having power and/or signal contacts. Multiple package sizes with integral locking system.





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#### **Sales Offices**

Positronic has local sales representation all over the world. To find the nearest sales office, please visit www.connectpositronic.com/locations

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### Positronic:

 VPB30W8M6200A1/AA
 VPB22W8M6200C1/AA
 VPB34W8M400A1/AA
 VPB34W8M6200A1/AA
 VPB30W8M400A1/AA
 VPB30W8F9300C1
 VPB30W8M6200A1
 VPB30W8F9300C1/AA

 VPB22W8M4200A1/AA
 VPB22W8M6200A1/AA
 VPB30W8F9300A1/AA
 VPB30W8M4200A1/AA
 VPB30W8M4200A1/AA

 VPB30W8F400A1/AA-394.0
 VPB22W8M400A1/AA
 VPB22W8M6200A1
 VPB30W8F400A1-394.0
 VPB30W8F9300A1

 VPB34W8M400A1
 VPB22W8M6200C1
 VPB22W8M400A1
 VPB30W8F400A1-394.0
 VPB22W8M4200A1