

ORDERING INFORMATION – CODE NUMBERING SYSTEM

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



Positronic Industries
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STEP	1	2	3	4	5	6	7	8	9
EXAMPLE	VPB	30W8	F	93	0	0	A1	/AA	
STEP 1 - BASIC SERIES VPB - VP Series									STEP 9 - SPECIAL OPTIONS 394.0- Allows for female contact right angle solder mount. CONTACT TECHNICAL SALES FOR SPECIAL OPTIONS
STEP 2 - CONNECTOR VARIANTS *30W8 - Contact positions 1-4 are not populated. Standard variant for AdvancedTCA® backplanes. Standard option for frontboards. *22W8 - Contact positions 1-4 and 17-24 are not populated. Standard cost saving option for AdvancedTCA® frontboards.									STEP 8 - ENVIRONMENTAL COMPLIANCE OPTIONS /AA - Compliant per EU Directive 2002/95/EC (RoHS) Note: This step should be included to create a standard part number. Example: VPB30W8F9300A1/AA
STEP 3 - CONNECTOR GENDER M - Male F - Female									STEP 7 - CONTACT PLATING (choose plating based on end use requirements) 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 62 or 93 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 coated termination end. Not available with code 62 or 93 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 coated termination end. Not available with code 62 or 93 in step 4.
STEP 4 - CONTACT TERMINATION TYPE 4 - Right Angle Board Mount, Solder, termination length 2.68 [0.106] (30W8 female requires MOS 394.0, contact Technical Sales for 22W8 female MOS part number) 42- Right Angle Board Mount, Solder, termination length 4.09 [0.161]. 62 - Right Angle Board Mount, Press-fit. Male only 93 - Straight Board Mount, Press-fit. Female only									STEP 6 0 - None
STEP 5 0 - None									



*VPB series can be supplied with contacts populated in all 34 positions. Use part number VPB34W8*****.

- Female contact 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.

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.

Let us work with you to develop variants of the VP Series to meet your specific requirements.

MOUNTING SCREWS			Install Screw to a Depth of: 3.50 [0.138] Minimum 5.00 [0.197] Maximum
STEEL SCREW PART NUMBER	STAINLESS STEEL SCREW PART NUMBER	THREAD LENGTH	
4546-7-1-16	4546-7-6-4	6.35+0.00-0.76 [0.250+0.000-0.030]	Contact factory for RoHS compliant mounting screw information
4546-7-2-16	4546-7-7-4	7.93+0.00-0.76 [0.312+0.000-0.030]	
4546-7-3-16	4546-7-8-4	9.53+0.00-0.76 [0.375+0.000-0.030]	
4546-7-4-16	4546-7-9-4	11.11+0.00-0.76 [0.438+0.000-0.030]	

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.

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