## Molex 43255-0011 PDF

深圳创唯电子有限公司

http://www.molex-connect.com



(HOT TIN PLATED TERMINALS ONLY)

1.0 Scope:
This specification covers the .250 inch (6.35 mm) centerline tin plated printed circuit board connector series.

2.0 Product Description:

2.1 Product Name and Part Number

□ԴB	Product Name Pin header assembly, 2 circuit Pin header assembly, 3 circuit Pin header assembly, 4 circuit Pin header assembly, 6 circuit Pin header assembly, 9 circuit Pin header assembly, 12 circuit Pin header assembly, 15 circuit	Part Number A-42002-2*1A* A-42002-3*1A* A-42002-4*1A* A-42002-6*1A* A-42002-9*1A* A-42002-12*1A* A-42002-15*1A*
□^B	Socket header assemb 4 2 circuit Socket header assembly, 3 circuit Socket header assembly, 4 circuit Socket header assembly, 9 circuit Socket header assembly, 12 circuit Socket header assembly, 15 circuit	A-42002-2*1A* A-42002-3*1A* A-42002-4*1A* A-42002-6*1A* A-42002-9*1A* A-42002-12*1A
□ъВ	2.2 Mating components Housing: Plug Terminal: Pin Terminal: Socket	42021-* 42023-1A1* 42024-A1*

2.3 Printed circuit board Solder tail length:

□rB

1. For a  $.06\overline{2}/(1.57)$  thick board, the .17/(4.3)

solder tail length is recommended.

2. For a .125/(3.18) thick board, the .23/(4.3) solder tail length is recommended.

DRWG. NO.		2.4 Materials, Platings and Markings  See the appropriate Sales Drawings for information on materials, platings and markings									
-42	□rB										
00	REV.	4	4	4	4	4					
2-	SHT.	1	2	3	4	5					
000	PS42002XI		▽=	,	=		REVISE ONLY ON CAD SYSTEM	REV.	4		
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                             (HOT TIN PLATED TERMINALS ONLY)
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        3. Ø
             Applicable Documents and Specifications:
              See the Sales Drawings and the other sections of this
              Specification.
       □rB
       □rB
              3.1
                     Agency approvals:
                          UL file number: applied for
                          CSA file number: applied for
       □'nB
        4.0
             Ratings:
       □rB
              It is standard practice in the industry to rate header
              connector systems the same as in-line connector systems.
              All the below listed ratings and tests are valid, but it
              is possible that certain practices and materials of
              printed circuit board technology will undermine the below
              listed values, and as such are out of our control. It's
              the responsibility of the end user to determine the
              suitability of these products for the application.
       □rB
       □rB
              4.1 Voltage: 600 Volts
              4.2 Current : 2,3 and 4 Circuit- 12.0 Amps Maximum
                         6,9,12 and 15 Circuit- 9.0 Amps Maximum
              4.3 Temparature: Operating -55C to +105C
             Performance Specifications
              5.1 Electrical Performance
       □rB
                                 TEST CONDITION
                                                                 REQUIREMENT
             ITEM
       Π'nΒ
           Contact
                                                                 2.5 milliohms
                        Mate connectors with a maximum
                        voltage of 20 mV and a current
          Resistance
                                                                 Maximum (initial)
                        of 100 mA
          [Low Level]
                        (MIL-STD-1344A METHOD 3004.1)
       □rB
                                                                 1000 Megohms
                        Mate connectors with a voltage of
          hasulation
                        500 VDC between adjacent terminals.
                                                                    Minimum
          Resistance
                                                                                      PSX-42002-000
       □\B
□\B
□\B
                        (MIL-STD-1344A METHOD 3003.1)
                                                                   (initial)
          Dielectric
                        Mate connectors with a voltage of
                                                                 No Breakdown
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                        2900 VAC for 1 minute between
      □ B Strength
                        adjacent terminals.
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                        (MIL-STD-1344A METHOD 3001.1)
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### PRODUCT SPECIFICATION FOR .084/(2.13) DIAMETER SE PIN AND SOCKET

(HOT TIN PLATED TERMINALS ONLY) 5.2 Mechanical Performance 煕 ITEM TEST CONDITION REQUIREMENT Insert and withdraw connectors MAX Connector Min <u>DrB</u>Insertion at a rate of 0.5 inches INSERTION WITHDRAWAL □rB and Withdrawal per minute (12.7 mm per 0.5 3. Ø minute) (per terminal, initial) (MIL-STD-1344A METHOD 2013.1) 4 lbf \_\_BRetention Axial push out force on the Force terminal in the housing at a Minimum rate of .5 inches per minute in (12.7 mm per minute) Housing (MIL-STD-1344A METHOD 2010.1) 2.6 milliohm Max Durability Mate connectors up to 50 cycles at a maximum rate of 5 cycles per minute (MIL-STD-1344A METHOD 2016) Amplitude: .060" (1.5 mm) Vibration Appearance: No Damage Contact Resistance: peak to peak Sweep: 10-55-10 Hertz in 5.0 milliohm Maximum one minute Duration: 2 hours in each Discontinuity: 1 micro X-Y-Z axis second Maximum (MIL-STD-1344A METHOD 2005.1) (TEST CONDITION I) Mechanical 50 G's with three shocks Appearance: No Damage in each X-Y-Z axis Shock Contact Resistance: (MIL-STD-1344A METHOD 2004.1) 6 milliohm Maximum (TEST CONDITION A) □'nB Discontinuity: 1 micro second Maximum Π'nΒ □rB □rB PSX-42002-000 □rB □rB REV. SHT.

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	(HOT TIN PLATED TERMINALS ONLY)			
5.3	Environmental Performance			
ITEN	M TEST CONDITION REQUIREME	NT		
Therma Shock		tance: Maxim rength	um !	
Humidit tempera cycling	ature to Temperature -humidity Contact Resis	tance: Maxim rength 1 minu sistan	um : te ce:	
Salt spr	ray Expose unmated connector 7.00 milliohm assemblies to a salt spray concentration of 5% at Dielectric St 35 C for 48 hours. 5000 VAC for (MIL-STD-1344A METHOD 1001.1)	rength	:	
Therma Aging		tance:	_	
□rB Solderat □rB □rB	oility Solder Time: 3+/- 0.5 seconds 95% of imme Solder Temperature: 230 must show r +/- 5 C pin holes,	o void		
Resistar to Solde Heats TRB TAB		No Da	mage	PSX
REV.				SX-42002-000
FILE NAME PS42002X4	♥= ▼= REVISE ONLY ON CAD SYSTEM	REV.	4	
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LTR.	REVISIONS
	"X" RELEASE PER ECN# U10688 91/02/21 KBP
"L≻B E≻B	REVISED PER ECN# U10721 91/04/03 KBP
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