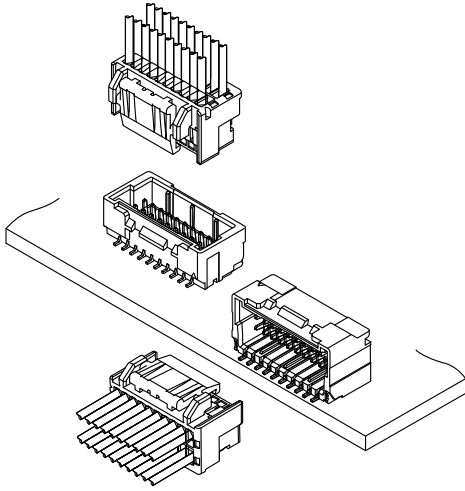


# A1012 NSHD CONNECTOR

1.00mm Pitch/Wire-to-Boare connectors/Crimp style and Mating Style connectors



This is a wire-to-board connector with secure locking specification, which achieved excellent workability and withstanding external force. Realize industry-leading space-saving, 1.0 mm pitch dual-row, and support a high densification of equipment.

- Excellent workability (Low insertion force)
- Withstanding external force
- Secure lock mechanism
- Space saving



E529482

## Specifications:

- Current rating: 1.0 A AC/DC (AWG 28#)
- Voltage rating: 50 V AC/DC
- Temperature range:  $-25^{\circ}\text{C} \sim +105^{\circ}\text{C}$   
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 20m  $\Omega$  max  
After environmental testing/ 40m  $\Omega$  max
- Insulation resistance: 100 M  $\Omega$  min
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Conductor size/ AWG#32 to #28  
Insulation O.D./ 0.40 to 0.80 mm

\* Compliant with RoHS2/ REACH/ HF

\* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).

\* Contact CSG for details

## Material:

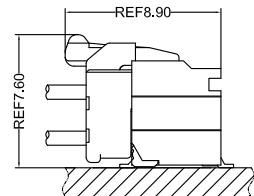
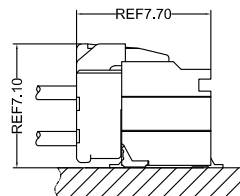
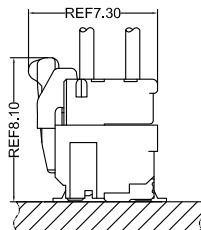
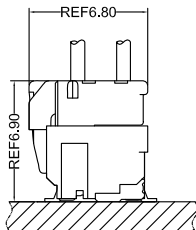
Housing: PA66, UL94-V0; Color: White

Terminal: Phosphor/ Tin-plated, Gold-Plated

Wafer Housing: LCP, UL94-V0; Color: Natural

Wafer Pin: Phosphor/ Tin-plated, Gold-Plated

Wafer Fixed Foot: Brass/ Tin-plated

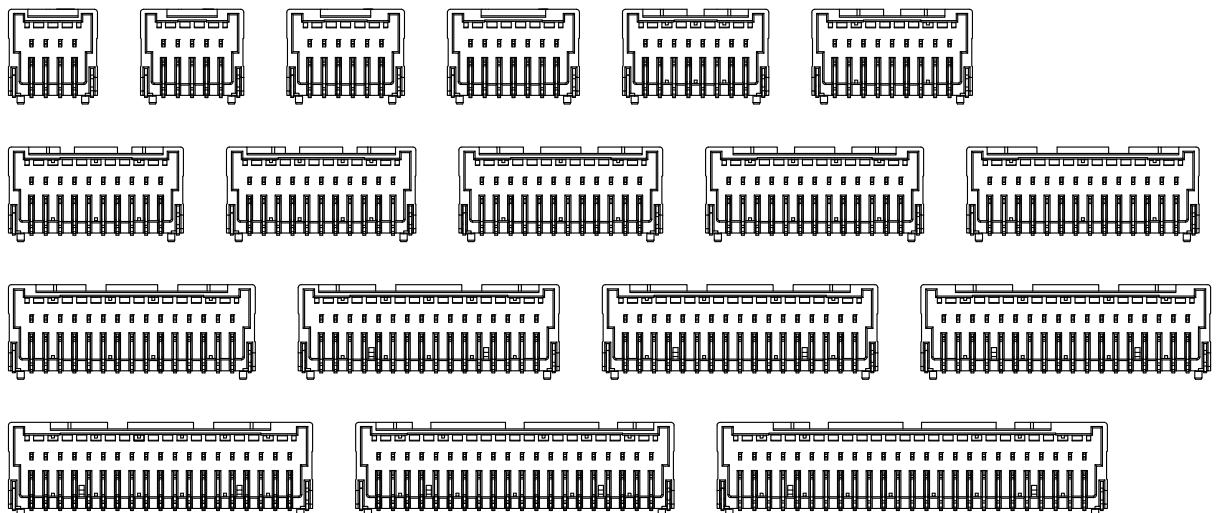
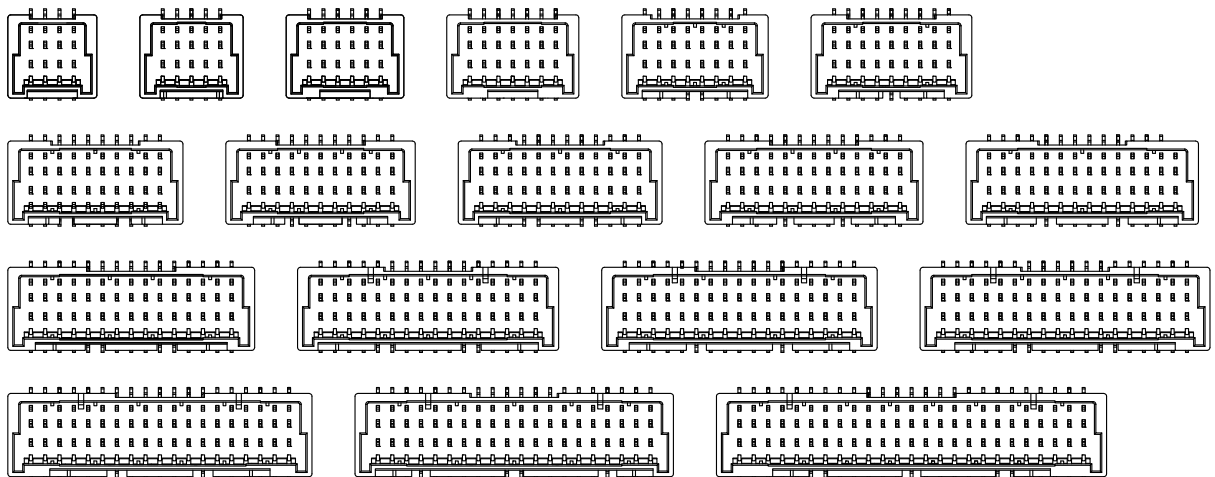
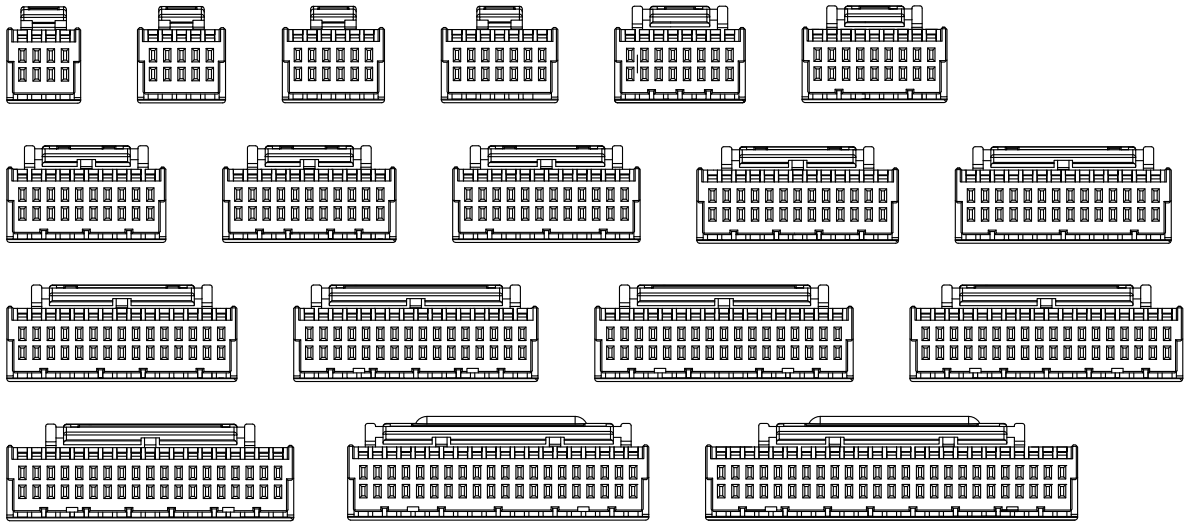


- Note: 1. The above figure is the figure viewed from the connector mounting side.  
2. Tolerances are non-cumulative:  $\pm 0.08$  mm for all centers.  
3. The dimensions above should serve as a guideline. Contact CSG for details.

**CSG**

# A1012 NSHD

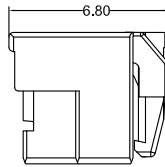
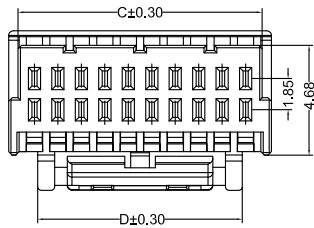
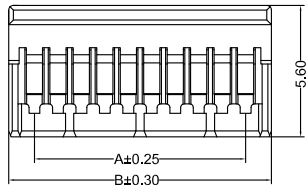
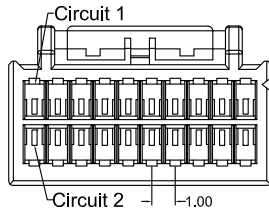
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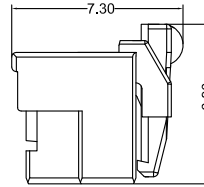
**CSG**

Tel: +86-769-85312070 85375507 E-mail: James@csg-china.com www.csg-china.com

# A1012 NSHD

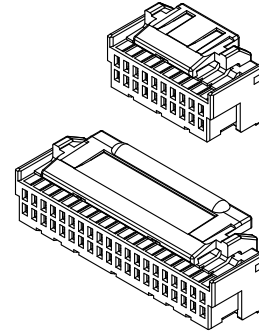


2X4P~2X19P

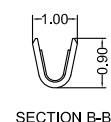
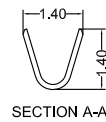
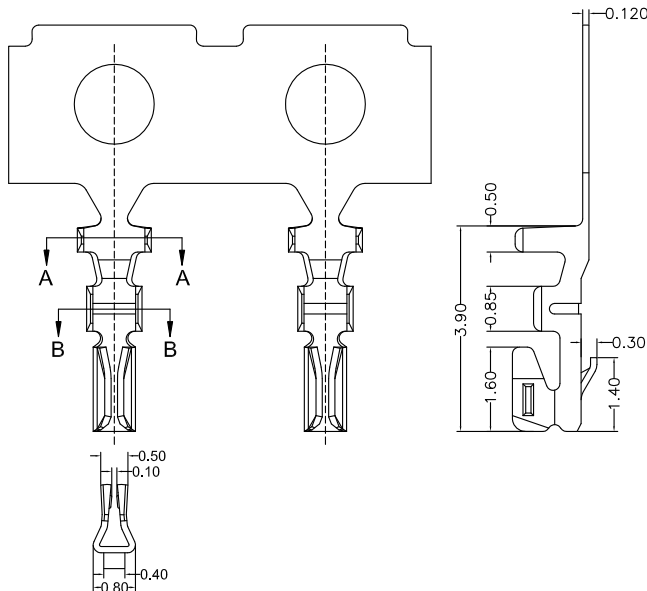


2X20P~2X25P

A1012HF 2XX AA P6 9 001  
 PIN 202=2X4PINS  
 SPECIAL  
 AK=BUCKLE  
 Material  
 P6=PA66 94V-0  
 Code 001  
 Color 9=White



| CSG PART NO.       | Dimension mm |       |       |       | Q'ty/BAG |
|--------------------|--------------|-------|-------|-------|----------|
|                    | A            | B     | C     | D     |          |
| A1012HF204AKP69001 | 3.00         | 5.20  | 4.40  | 3.20  | 1000PCS  |
| A1012HF205AKP69001 | 4.00         | 6.20  | 5.40  | 3.20  | 1000PCS  |
| A1012HF206AKP69001 | 5.00         | 7.20  | 6.40  | 3.20  | 1000PCS  |
| A1012HF207AKP69001 | 6.00         | 8.20  | 7.40  | 3.20  | 1000PCS  |
| A1012HF208AKP69001 | 7.00         | 9.20  | 8.40  | 6.70  | 1000PCS  |
| A1012HF209AKP69001 | 8.00         | 10.20 | 9.40  | 6.70  | 1000PCS  |
| A1012HF210AKP69001 | 9.00         | 11.20 | 10.40 | 8.70  | 1000PCS  |
| A1012HF211AKP69001 | 10.00        | 12.20 | 11.40 | 8.70  | 1000PCS  |
| A1012HF212AKP69001 | 11.00        | 13.20 | 12.40 | 10.70 | 1000PCS  |
| A1012HF213AKP69001 | 12.00        | 14.20 | 13.40 | 10.70 | 1000PCS  |
| A1012HF214AKP69001 | 13.00        | 15.20 | 14.40 | 12.70 | 1000PCS  |
| A1012HF215AKP69001 | 14.00        | 16.20 | 15.40 | 12.70 | 1000PCS  |
| A1012HF216AKP69001 | 15.00        | 17.20 | 16.40 | 14.70 | 1000PCS  |
| A1012HF217AKP69001 | 16.00        | 18.20 | 17.40 | 14.70 | 1000PCS  |
| A1012HF218AKP69001 | 17.00        | 19.20 | 18.40 | 14.70 | 1000PCS  |
| A1012HF219AKP69001 | 18.00        | 20.20 | 19.40 | 14.70 | 1000PCS  |
| A1012HF220AKP69001 | 19.00        | 21.20 | 20.40 | 18.70 | 1000PCS  |
| A1012HF225AKP69001 | 24.00        | 26.20 | 25.40 | 18.70 | 1000PCS  |

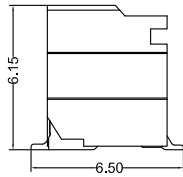
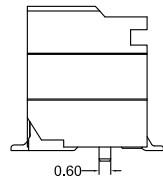
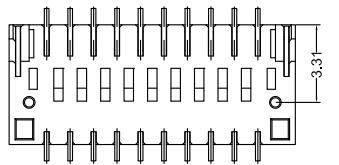
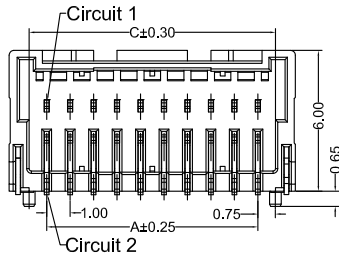
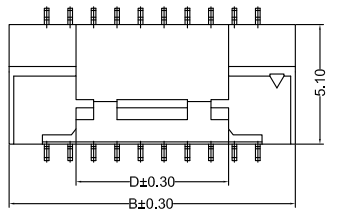


A1012 M 0 XX 002  
 Type  
 M=Female Terminal  
 Material  
 A=Phosphor  
 Finish  
 TP=Tin-Plated  
 GF=Gold-Plated  
 Code 002

| CSG PART NO.  | Wire Range | Insulation O.D. | Q'ty/Reel |
|---------------|------------|-----------------|-----------|
| A1012M0ATP002 | AWG#28~#32 | 0.80mm(max)     | 20000PCS  |
| A1012M0AGF002 | AWG#28~#32 | 0.80mm(max)     | 20000PCS  |

**CSG**

# A1012 NSHD

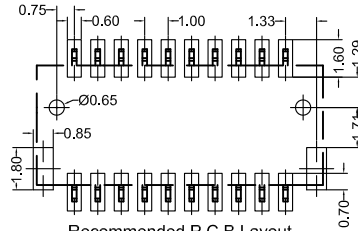


A1012RS 2XX AX XX XX BA 001

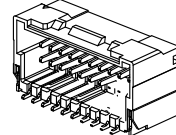
PIN  
204=2X4PINS  
SPECIAL  
AA=NO Special  
AP=Pillars  
Material  
LP=LCP 94V-0  
6T=PA6T 94V-0

Code  
001  
Color  
A=Natural  
Packing  
B=Reel

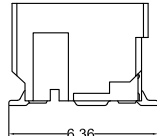
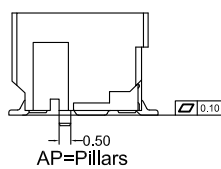
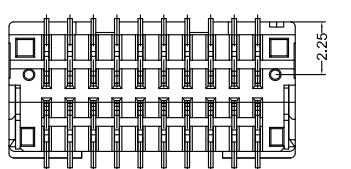
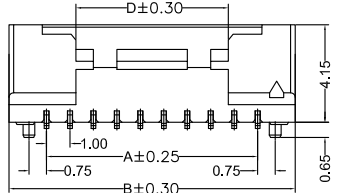
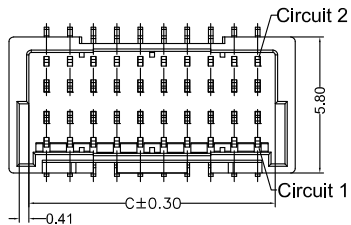
Finish  
TP=Terminal Tin-Plated  
GF=Terminal Gold-Plated



Recommended P.C.B Layout  
General Tolerance±0.05



| CSG PART NO.          | Dimension mm |       |       |      | Q'ty/BAG |
|-----------------------|--------------|-------|-------|------|----------|
|                       | A            | B     | C     | D    |          |
| A1012RS204AXXXXXBX001 | 3.00         | 6.20  | 4.50  | 3.50 | 1000PCS  |
| A1012RS205AXXXXXBX001 | 4.00         | 7.20  | 5.50  | 3.50 | 1000PCS  |
| A1012RS206AXXXXXBX001 | 5.00         | 8.20  | 6.50  | 3.50 | 1000PCS  |
| A1012RS207AXXXXXBX001 | 6.00         | 9.20  | 7.50  | 3.50 | 1000PCS  |
| A1012RS208AXXXXXBX001 | 7.00         | 10.20 | 8.50  | 3.50 | 1000PCS  |
| A1012RS209AXXXXXBX001 | 8.00         | 11.20 | 9.50  | 3.50 | 1000PCS  |
| A1012RS210AXXXXXBX001 | 9.00         | 12.20 | 10.50 | 3.50 | 1000PCS  |
| A1012RS211AXXXXXBX001 | 10.00        | 13.20 | 11.50 | 3.50 | 1000PCS  |
| A1012RS212AXXXXXBX001 | 11.00        | 14.20 | 12.50 | 3.50 | 1000PCS  |
| A1012RS213AXXXXXBX001 | 12.00        | 15.20 | 13.50 | 3.50 | 1000PCS  |
| A1012RS214AXXXXXBX001 | 13.00        | 16.20 | 14.50 | 3.50 | 1000PCS  |
| A1012RS215AXXXXXBX001 | 14.00        | 17.20 | 15.50 | 3.50 | 1000PCS  |
| A1012RS216AXXXXXBX001 | 15.00        | 18.20 | 16.50 | 3.50 | 1000PCS  |
| A1012RS217AXXXXXBX001 | 16.00        | 19.20 | 17.50 | 3.50 | 1000PCS  |
| A1012RS218AXXXXXBX001 | 17.00        | 20.20 | 18.50 | 3.50 | 1000PCS  |
| A1012RS219AXXXXXBX001 | 18.00        | 21.20 | 19.50 | 3.50 | 1000PCS  |
| A1012RS220AXXXXXBX001 | 19.00        | 22.20 | 20.50 | 3.50 | 1000PCS  |
| A1012RS225AXXXXXBX001 | 24.00        | 27.20 | 25.50 | 3.50 | 1000PCS  |

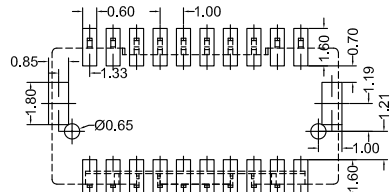


A1012VS 2XX AX XX XX BA 001

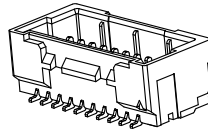
PIN  
204=2X4PINS  
SPECIAL  
AA=NO Spedal  
AP=Pillars  
Material  
LP=LCP 94V-0  
6T=PA6T 94V-0

Code  
001  
Color  
A=Natural  
Packing  
B=Reel

Finish  
TP=Terminal Tin-Plated  
GF=Terminal Gold-Plated



Recommended P.C.B Layout  
General Tolerance±0.05



| CSG PART NO.          | Dimension mm |       |       |      | Q'ty/BAG |
|-----------------------|--------------|-------|-------|------|----------|
|                       | A            | B     | C     | D    |          |
| A1012VS204AXXXXXBX001 | 3.00         | 6.20  | 4.50  | 3.50 | 1350PCS  |
| A1012VS205AXXXXXBX001 | 4.00         | 7.20  | 5.50  | 3.50 | 1350PCS  |
| A1012VS206AXXXXXBX001 | 5.00         | 8.20  | 6.50  | 3.50 | 1350PCS  |
| A1012VS207AXXXXXBX001 | 6.00         | 9.20  | 7.50  | 3.50 | 1350PCS  |
| A1012VS208AXXXXXBX001 | 7.00         | 10.20 | 8.50  | 3.50 | 1350PCS  |
| A1012VS209AXXXXXBX001 | 8.00         | 11.20 | 9.50  | 3.50 | 1350PCS  |
| A1012VS210AXXXXXBX001 | 9.00         | 12.20 | 10.50 | 3.50 | 1350PCS  |
| A1012VS211AXXXXXBX001 | 10.00        | 13.20 | 11.50 | 3.50 | 1350PCS  |
| A1012VS212AXXXXXBX001 | 11.00        | 14.20 | 12.50 | 3.50 | 1350PCS  |
| A1012VS213AXXXXXBX001 | 12.00        | 15.20 | 13.50 | 3.50 | 1350PCS  |
| A1012VS214AXXXXXBX001 | 13.00        | 16.20 | 14.50 | 3.50 | 1350PCS  |
| A1012VS215AXXXXXBX001 | 14.00        | 17.20 | 15.50 | 3.50 | 1350PCS  |
| A1012VS216AXXXXXBX001 | 15.00        | 18.20 | 16.50 | 3.50 | 1350PCS  |
| A1012VS217AXXXXXBX001 | 16.00        | 19.20 | 17.50 | 3.50 | 1350PCS  |
| A1012VS218AXXXXXBX001 | 17.00        | 20.20 | 18.50 | 3.50 | 1350PCS  |
| A1012VS219AXXXXXBX001 | 18.00        | 21.20 | 19.50 | 3.50 | 1350PCS  |
| A1012VS220AXXXXXBX001 | 19.00        | 22.20 | 20.50 | 3.50 | 1350PCS  |
| A1012VS225AXXXXXBX001 | 24.00        | 27.20 | 25.50 | 3.50 | 1350PCS  |

**CSG**

Tel:+86-769-85312070 85375507 E-mail:James@csg-china.com www.csg-china.com