INTRODUCTION:
Adam Tech 2CH & 2SH Series of multiple pitch Headers and Housings are a matched set of Crimp Wire Housings and PCB mounted Shrouded Headers available in Straight, Right Angle or SMT orientation. Offered in various popular industry standard styles they provide a lightweight, fine pitched, polarized, high reliability connection system.

FEATURES:
- Multiple pitches and configurations
- Matched Housing & Header system
- Straight, Right Angle or SMT Headers
- Sure fit, Fine Pitched & Polarized

MATING CONNECTORS:
Each set has a male and female mate

SPECIFICATIONS:
Material:
- Insulator: Thru-hole: PBT, glass reinforced, rated UL94V-0
- SMT: Nylon 46 or 6T, rated UL94V-0
- Contacts: Brass
Plating:
- Tin over copper underplate overall
Electrical:
- Operating voltage: 100V AC max.
- Current rating: 0.5 - 3 Amps max.
- Insulation resistance: 1000 MΩ min.
- Dielectric withstanding voltage: 800V AC for 1 minute
Mechanical:
- Insertion force: 1.28 lbs max
- Withdrawal force: 0.180 lbs min.
- Temperature Rating:
  - Operating temperature: -25°C to +85°C

SAFETY AGENCY APPROVALS:
UL Recognized & CSA Certified, File no. E224053

ORDERING INFORMATION
CRIMP HOUSING

SERIES INDICATOR
- 08CH = 0.80mm Single Row
- 1CH = 1.00mm Single Row
- 125CH = 1.25mm Single Row
- 15CH = 1.50mm Single Row
- 2CH = 2.00mm Single Row
- 2CH2 = 2.00mm Dual Row
- 25CH = 2.50mm Single Row

BODY STYLE
- A = Body Style "A"
- B = Body Style "B"
- C = Body Style "C"

POSITIONS
- 02 Thru 15

ORDERING INFORMATION
SHROUDED HEADER

SERIES INDICATOR
- 08SH = 0.80mm
- 1SH = 1.00mm
- 125SH = 1.25mm
- 15SH = 1.50mm
- 2SH = 2.00mm
- 25SH = 2.50mm

BODY STYLE
- A = Body Style "A"
- B = Body Style "B"
- C = Body Style "C"

PIN ANGLE
- IDC = Pre-installed crimp contacts
- TS = Straight PCB
- TR = Right Angle PCB

POSITIONS
- 02 thru 25

OPTIONS:
Add designator(s) to end of part number
- SMT = Surface mount leads with Hi-Temp insulator

PACKAGING
- R = 10,000 Piece Reel

Downloaded from Arrow.com.
HEAdeR & HOUSING SYsteMS
0.8mm & 1.00mm
08CH, 1CH & 08SH, 1SH SERIES

08CH-A-XX-IDC
0.8mm IDC HOUSING
WITH PRE-INSTALLED CONTACTS

A = 0.031 [0.80] X No. of Positions -1
B = 0.031 [0.80] X No. of Positions + 0.31 [0.80]

08CH-A-08-IDC

08SH-A-XX-TS-SMT
0.8mm VERTICAL SMT HEADER

A = 0.031 [0.80] X No. of Positions -1
B = 0.031 [0.80] X No. of Positions + 0.31 [0.80]

08SH-A-08-TS-SMT

1CH-A-XX
1.00mm CRIMP HOUSING

A = 0.039 [1.00] X No. of Positions -1
B = 0.039 [1.00] X No. of Positions + 0.18 [3.00]

1CH-A-04

1CTA-R
1.00mm TERMINAL

A = 0.039 [1.00] X No. of Positions -1
B = 0.039 [1.00] X No. of Positions + 0.18 [3.00]

1SH-A-XX-TS-SMT
1.00mm VERTICAL SMT HEADER

A = 0.039 [1.00] X No. of Positions -1
B = 0.039 [1.00] X No. of Positions + 0.078 [2.00]

1SH-A-04-TS-SMT

1SH-A-XX-TR-SMT
1.00mm RIGHT ANGLE SMT HEADER

A = 0.039 [1.00] X No. of Positions -1
B = 0.039 [1.00] X No. of Positions + 0.078 [2.00]

1SH-A-04-TR-SMT

Recommended PCB Layout

Recommended PCB Layout

Recommended PCB Layout

Recommended PCB Layout

Recommended wire size 32-28 awg.
### Recommended Wire Size

Recommended wire size 32-28 awg.

### Recommended PCB Layout

- **A** = 0.049 [1.25] X No. of Positions + 0.068 [1.75]
- **B** = 0.049 [1.25] X No. of Positions + 0.068 [1.75]

### 125CH-A-XX

1.25mm CRIMP HOUSING

![Diagram](image)

### 125CTA-R

1.25mm CRIMP TERMINAL

![Diagram](image)

### 125SH-A-XX-TS

1.25mm VERTICAL HEADER

![Diagram](image)

### 125SH-A-XX-TR

1.25mm RIGHT ANGLE HEADER

![Diagram](image)

### 125SH-A-XX-TS-SMT

1.25mm VERTICAL SMT HEADER

![Diagram](image)

### 125SH-A-XX-TR-SMT

1.25mm RIGHT ANGLE SMT HEADER

![Diagram](image)
**1.25mm Type B**

### 125CH & 125SH SERIES

**125CH-B-XX**

- **1.25mm CRIMP HOUSING**

**125CTB-R**

- **1.25mm CRIMP TERMINAL**

**125SH-B-XX-TS**

- **1.25mm VERTICAL HEADER**

**125SH-B-XX-TS-SMT**

- **1.25mm VERTICAL SMT HEADER**

**125SH-B-XX-TR-SMT**

- **1.25mm RIGHT ANGLE SMT HEADER**

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**Recommended PCB Layout**

- **Recommended wire size 32-28 awg.**

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**C=.049 [1.25] X No. of Positions + .068 [1.75]**

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

**Recommended PCB Layout**

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**125SH-B-04-TR-SMT**

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

**C=.049 [1.25] X No. of Positions + .202 [5.15]**

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**Recommended PCB Layout**

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**C=.049 [1.25] X No. of Positions + .187 [4.75]**

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

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**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

**C=.049 [1.25] X No. of Positions + .187 [4.75]**

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**Recommended PCB Layout**

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**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

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**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

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**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

---

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

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**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

---

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

---

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

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**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

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**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

---

**Recommended PCB Layout**

---

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

---

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

---

**A=.049 [1.25] X No. of Positions -1**

**B=.049 [1.25] X No. of Positions + .068 [1.75]**

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**Recommended PCB Layout**

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1.25mm Type C
125CH & 125SH SERIES

125CH-C-XX
1.25mm CRIMP HOUSING

125CH-C-05

125CTC-R
1.25mm CRIMP TERMINAL

Recommended wire size 28-32 awg.

125SH-C-XX-TS
1.25mm VERTICAL HEADER

125SH-C-05-TS

Recommended PCB Layout

125SH-C-XX-TR
1.25mm RIGHT ANGLE HEADER

125SH-C-05-TR

Recommended PCB Layout

125SH-C-XX-TS-SMT
1.25mm VERTICAL SMT HEADER

125SH-C-05-TR-SMT

Recommended PCB Layout

125SH-C-XX-TR-SMT
1.25mm RIGHT ANGLE SMT HEADER

125SH-C-08-TR-SMT

Recommended PCB Layout
### Recommended PCB Layouts

#### 15CH-A-XX
- **1.5mm CRIMP HOUSING**

- **15CH-A-10**

  \[
  A = 0.060 \ [1.50] \times \text{No of Positions} - 1 \\
  B = 0.060 \ [1.50] \times \text{No of Positions} + 0.059 \ [1.50]
  \]

- **15CH-A-XX-TS**

  \[
  A = 0.019 \ [0.50] \times \text{No of Positions} - 1 \\
  B = 0.019 \ [0.50] \times \text{No of Spaces} + 0.059 \ [1.50]
  \]

- **15CH-A-XX-TR**

  \[
  A = 0.019 \ [0.50] \times \text{No of Positions} - 1 \\
  B = 0.019 \ [0.50] \times \text{No of Spaces} + 0.059 \ [1.50]
  \]

- **15CH-A-XX-TR-SMT**

  \[
  A = 0.019 \ [0.50] \times \text{No of Positions} - 1 \\
  B = 0.019 \ [0.50] \times \text{No of Spaces} + 0.059 \ [1.50]
  \]

#### 15SH-A-XX
- **1.5mm VERTICAL HEADER**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.059 \ [1.50] \\
  \]

- **15SH-A-04**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.106 \ [2.70] \\
  \]

- **15SH-A-04-TS**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.177 \ [4.50] \\
  \]

- **15SH-A-XX-TS**

  \[
  A = 0.137 \ [3.50] \\
  B = 0.059 \ [1.50] \\
  \]

- **15SH-A-XX-TR**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.181 \ [4.60] \\
  \]

- **15SH-A-XX-TR-SMT**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.196 \ [5.00] \\
  \]

- **15SH-A-XX-TR-SMT**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.196 \ [5.00] \\
  \]

#### 15SH-A-XX-TS-SMT
- **1.5mm VERTICAL SMT HEADER**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.059 \ [1.50] \\
  \]

- **15SH-A-04-TS**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.137 \ [3.50] \\
  \]

- **15SH-A-04-TS-SMT**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.106 \ [2.70] \\
  \]

- **15SH-A-04-TS-SMT**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.137 \ [3.50] \\
  \]

- **15SH-A-04-TR**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.059 \ [1.50] \\
  \]

- **15SH-A-04-TR-SMT**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.157 \ [4.00] \\
  \]

- **15SH-A-04-TR-SMT**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.157 \ [4.00] \\
  \]

- **15SH-A-04-TR-SMT**

  \[
  A = 0.060 \ [1.50] \\
  B = 0.157 \ [4.00] \\
  \]

#### Recommended Wire Size
- 26-30 awg.
HEADER & HOUSING SYSTEMS

1.5mm Type B & 2mm Type B
15CH, 15SH & 2CH, 2SH SERIES

Recommended PCB Layout

Recommended wire size 28-24 awg.

15CH-B-XX
1.5mm CRIMP HOUSING

15SH-B-XX-TS-SMT
1.5mm VERTICAL SMT HEADER

Recommended PCB Layout

Recommended wire size 28-22 awg.

2CH-B-XX
2mm CRIMP HOUSING

2SH-B-XX-TS
2mm VERTICAL HEADER

Recommended PCB Layout

Recommended wire size 28-22 awg.

2CTB
2mm CRIMP TERMINAL

2CTB-R

Recommended PCB Layout

HeADeR & HOUSING SYSteMS

1.5mm type B & 2mm type B
15Ch, 15Sh & 2Ch, 2Sh SerIeS

Recommended wire size 28-24 awg.

Recommended wire size 28-22 awg.

15CH-B-05

15SH-B-04-TS-SMT

2CH-B-10

2SH-B-10-TS

2SH-B-10-TR

15CTB-R

15CTB-R

15SH-B-XX-TR-SMT
1.5mm RIGHT ANGLE SMT HEADER

2SH-B-XX-TR-SMT

2SH-B-10-TR

Recommended wire size 28-24 awg.

Recommended wire size 28-22 awg.

HeADeR & HOUSING SYSteMS