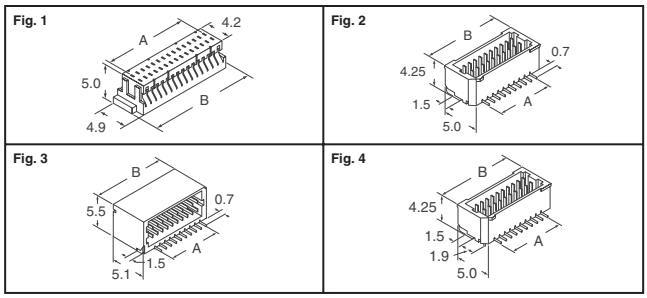
# JST SH and SR Series 1.0mm Connectors *(Cont.)*

| Fig. | Cir-cuits | Dim. (mm) A | Dim. (mm) B | Digi-Key Part No. | Cut Tape Pricing 1 | Cut Tape Pricing 10 | Tape and Reel† Qty. | Tape and Reel† Pricing | JST Part No. |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 14 | 13.0 | 16.0 | 455-1814-1-ND | .98 | 9.04 | 3,000 | 500.18/M | SM14B-SRSS-TB(LF)(SN) |
| | 15 | 14.0 | 17.0 | 455-1815-1-ND | 1.02 | 9.42 | 3,000 | 521.09/M | SM15B-SRSS-TB(LF)(SN) |
| | 20 | 19.0 | 22.0 | 455-1816-1-ND | 1.27 | 11.74 | 3,000 | 649.51/M | SM20B-SRSS-TB(LF)(SN) |
| ***Contacts - Tin Plated*** | | | | | | | | | |
| 32 ~ 28 AWG | | | | 455-1561-1-ND | .05 | .47 | 23,000 | 20.91/M | SSH-003T-P0.2 |
| 32 ~ 28 AWG | | | | 455-1912-1-ND | .19 | 1.79 | 1,000 | 98.78 | MINI-SSH-003T-P0.2 |
| ***Crimp Tool*** | | | | | | | | | |
| 32 ~ 28 AWG | | | | 455-1376-ND | 862.63/1 | | — | — | WC-SH2832 |

† For Tape and Reel part number, change 1-ND to 2-ND.

# SHD Series 1.0mm Connectors

**Features:** • Ultra compact double row design • Low Profile with a mounting height of 6.3mm (.248") for top entry type and 5.5mm (.217") for side entry type, and a width of 5.0mm (.197") for top entry type and 5.1mm (.201") for side entry type • Reliable Contact: The same contact can be used for the single row SH connectors • Anti-Misinsertion Feature: Ribs and grooves on the header and receptacle prevent misinsertion and distortion during mating and unmating.
**Specifications:** • Current Rating: 1.0A AC, DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32 ~ 28 AWG • Color: Natural (White)

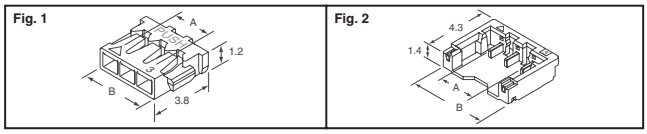



| Fig. | Cir-cuits | Dim. (mm) A | Dim. (mm) B | Digi-Key Part No. | Cut Tape Pricing 1 | Cut Tape Pricing 10 | Cut Tape Pricing 100 | Tape and Reel† Qty. | Tape and Reel† Pricing | JST Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Housing*** | | | | | | | | | | |
| 1 | 20 | 9.0 | 13.0 | 455-1436-ND‡ | .14 | 1.30 | 10.79 | — | — | SHDR-20V-S-B |
| | 30 | 14.0 | 18.0 | 455-1437-ND‡ | .20 | 1.83 | 15.24 | — | — | SHDR-30V-S-B |
| | 40 | 19.0 | 23.0 | 455-1438-ND‡ | .20 | 1.85 | 15.43 | — | — | SHDR-40V-S-B(P) |
| | 50 | 24.0 | 28.0 | 455-1439-ND‡ | .21 | 1.91 | 15.97 | — | — | SHDR-50V-S-B(P) |
| ***Shrouded Header*** | | | | | | | | | | |
| ***Top Entry Type*** | | | | | | | | | | |
| 2 | 20 | 9.0 | 12.3 | 455-1862-1-ND | 1.49 | 13.76 | 114.66 | 1,500 | 761.35/M | BM20B-SRDS-G-TF(LF)(SN) |
| | 30 | 14.0 | 17.3 | 455-1863-1-ND | 1.95 | 17.97 | 149.78 | 1,500 | 994.53/M | BM30B-SRDS-G-TF(LF)(SN) |
| | 40 | 19.0 | 22.3 | 455-1864-1-ND | 2.44 | 22.57 | 188.14 | 1,500 | 1249.25/M | BM40B-SRDS-G-TF(LF)(SN) |
| | 50 | 24.0 | 27.3 | 455-1865-1-ND | 2.95 | 27.18 | 226.51 | 1,500 | 1503.99/M | BM50B-SRDS-G-TF(LF)(SN) |
| ***Side Entry Type*** | | | | | | | | | | |
| 3 | 20 | 9.0 | 13.1 | 455-1866-1-ND | 1.63 | 15.11 | 125.91 | 1,250 | 836.04/M | SM20B-SRDS-G-TF(LF)(SN) |
| | 30 | 14.0 | 18.1 | 455-1867-1-ND | 1.87 | 17.19 | 143.30 | 1,250 | 951.56/M | SM30B-SRDS-G-TF(LF)(SN) |
| | 40 | 19.0 | 23.1 | 455-1868-1-ND | 2.36 | 21.79 | 181.60 | 1,250 | 1205.81/M | SM40B-SRDS-G-TF(LF)(SN) |
| | 50 | 24.0 | 28.1 | 455-1869-1-ND | 2.78 | 25.63 | 213.59 | 1,250 | 1418.23/M | SM50B-SRDS-G-TF(LF)(SN) |
| ***Top Entry Type with a Boss*** | | | | | | | | | | |
| 4 | 20 | 9.0 | 12.3 | 455-1870-1-ND | 1.49 | 13.77 | 114.68 | 1,250 | 761.51/M | BM20B-SRDS-A-G-TF(LF)(SN) |
| | 30 | 14.0 | 17.3 | 455-1871-1-ND | 1.95 | 17.98 | 149.80 | 1,250 | 994.66/M | BM30B-SRDS-A-G-TF(LF)(SN) |
| | 40 | 19.0 | 22.3 | 455-1872-1-ND | 2.44 | 22.58 | 188.16 | 1,250 | 1249.40/M | BM40B-SRDS-A-G-TF(LF)(SN) |
| | 50 | 24.0 | 27.3 | 455-1873-1-ND | 2.95 | 27.19 | 226.53 | 1,250 | 1504.14/M | BM50B-SRDS-A-G-TF(LF)(SN) |
| ***Contact - Gold Plated*** | | | | | | | | | | |
| 32 ~ 28 AWG | | | | 455-1435-1-ND | .06 | .62 | 5.11 | 23,000 | 27.19/M | SSH-003GA-P0.2 |
| ***Crimp Tool*** | | | | | | | | | | |
| 32 ~ 28 AWG | | | | 455-1376-ND | 862.63/1 | | | — | — | WC-SH2832 |

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

# ACH Series 1.20mm Connectors

**Features:** • Disconnectable crimp style • Compact, Low Profile with height of 1.4mm (.055"), width of 4.3mm (.169"), and 1.2mm (.047") pitch wire-to-board connector • Top entry, side feed **Specifications:** • Current Rating: 2A AC/DC (28 AWG) • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 30 ~ 28 AWG




| Fig. | Cir-cuits | Dim. (mm) A | Dim. (mm) B | Digi-Key Part No. | Cut Tape Pricing 1 | Cut Tape Pricing 10 | Cut Tape Pricing 100 | Tape and Reel† Qty. | Tape and Reel† Pricing | JST Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Housing*** | | | | | | | | | | |
| 1 | 2 | 1.2 | 2.6 | 455-2197-ND‡ | .07 | .70 | 5.82 | — | — | ACHR-02V-S |
| | 2 | 1.2 | 3.2 | 455-2200-ND‡ | .12 | 1.09 | 9.06 | — | — | ACHTP-02V-S |
| | 2 | 1.2 | 3.2 | 455-2201-ND‡ | .11 | 1.02 | 8.49 | — | — | ACHTR-02V-S |
| | 3 | 2.4 | 3.8 | 455-2198-ND‡ | .08 | .72 | 5.97 | — | — | ACHR-03V-S |
| | 4 | 3.6 | 5.0 | 455-2199-ND‡ | .09 | .78 | 6.50 | — | — | ACHR-04V-A-S |
| ***Shrouded Header*** | | | | | | | | | | |
| ***Top Entry — Side Feed Type*** | | | | | | | | | | |
| 2 | 2 | 1.2 | 4.2 | 455-2202-1-ND | .40 | 3.68 | 30.62 | 4,500 | 203.34/M | BM02B-ACHSS-GAN-TF(LF)(SN) |
| | 3 | 2.4 | 5.4 | 455-2203-1-ND | .46 | 4.29 | 35.76 | 4,500 | 237.41/M | BM03B-ACHSS-GAN-TF(LF)(SN) |
| | 4 | 3.6 | 6.6 | 455-2204-1-ND | .56 | 5.16 | 42.95 | 4,500 | 285.18/M | BM04B-ACHSS-A-GAN-TF(LF)(SN) |
| ***Contacts — Gold Plated*** | | | | | | | | | | |
| 30 ~ 28 AWG | | | | 455-2195-1-ND | .06 | .53 | 4.44 | 30,000 | 23.61/M | SACH-003G-P0.2 |
| 30 ~ 28 AWG | | | | 455-2196-1-ND | .06 | .48 | 4.02 | 30,000 | 21.37/M | SACHP-003G-P0.2 |
| 30 ~ 28 AWG | | | | 455-2206-2-ND▲ | — | — | — | 1,000 | 182.77 | MINI-SACH-003G-P0.2 |
| 30 ~ 28 AWG | | | | 455-2207-2-ND▲ | — | — | — | 1,000 | 182.77 | MINI-SACHP-003G-P0.2 |
| ***Crimp Tools*** | | | | | | | | | | |
| 30 ~ 28 AWG | | | | 455-2205-ND | 882.64/1 | | | — | — | YRS-1190 |
| Mini ACH Reel | | | | 455-2208-ND | 1249.63/1 | | | — | — | WC-ACH2830 |

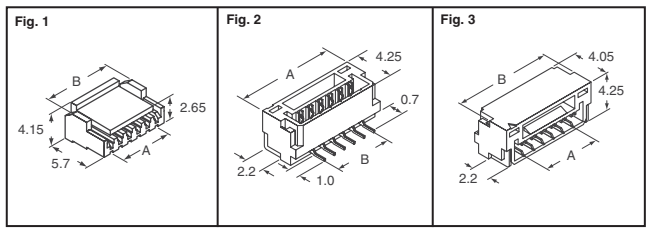
† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk ▲ Tape and Reel (not available in Cut Tape)

A

# GH Series 1.25mm Connectors

Developed for plasma display panels, LCD monitors, notebook PCs, PDAs, mobile phones and other small electronic equipment.

**Features:** The innovative housing lock design achieves a locking device which is easy to handle as well as secure. The header is fully shrouded and this protects the receptacle from damage that could be caused by mating the connector at an angle.
**Specifications:** • Current Rating: 1.0A AC/DC (26 AWG) • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: Conductor Size 30 ~ 26 AWG




| Fig. | Cir-cuits | Dimensions (mm) A | Dimensions (mm) B | Digi-Key Part No. | Pricing 1 | Pricing 10 | Pricing 100 | JST Part No. |
|---|---|---|---|---|---|---|---|---|
| ***Housing*** | | | | | | | | |
| 1 | 2 | 1.25 | 3.75 | 455-1592-ND | .06 | .55 | 4.62 | GHR-02V-S |
| | 3 | 2.50 | 5.00 | 455-1593-ND | .06 | .58 | 4.88 | GHR-03V-S |
| | 4 | 3.75 | 6.25 | 455-1594-ND | .06 | .62 | 5.13 | GHR-04V-S |
| | 5 | 5.00 | 7.50 | 455-1595-ND | .10 | .99 | 8.26 | GHR-05V-S |
| | 6 | 6.25 | 8.75 | 455-1596-ND | .11 | 1.01 | 8.42 | GHR-06V-S |
| | 7 | 7.50 | 10.00 | 455-1597-ND | .11 | 1.03 | 8.62 | GHR-07V-S |
| | 8 | 8.75 | 11.25 | 455-1598-ND | .11 | 1.04 | 8.70 | GHR-08V-S |
| | 9 | 10.00 | 12.50 | 455-1599-ND | .11 | 1.05 | 8.74 | GHR-09V-S |
| | 10 | 11.25 | 13.75 | 455-1600-ND | .11 | 1.06 | 8.82 | GHR-10V-S |
| | 11 | 12.50 | 15.00 | 455-1601-ND | .12 | 1.09 | 9.08 | GHR-11V-S |
| | 12 | 13.75 | 16.25 | 455-1602-ND | .12 | 1.11 | 9.23 | GHR-12V-S |
| | 13 | 15.00 | 17.50 | 455-1603-ND | .12 | 1.14 | 9.44 | GHR-13V-S |
| | 14 | 16.25 | 18.75 | 455-1604-ND | .13 | 1.15 | 9.59 | GHR-14V-S |
| | 15 | 17.50 | 20.00 | 455-1605-ND | .13 | 1.18 | 9.80 | GHR-15V-S |

| Fig. | Cir-cuits | Dim. (mm) A | Dim. (mm) B | Digi-Key Part No. | Cut Tape Pricing 1 | Cut Tape Pricing 10 | Cut Tape Pricing 100 | Tape and Reel† Qty. | Tape and Reel† Pricing | JST Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Headers*** | | | | | | | | | | |
| ***Top Entry*** | | | | | | | | | | |
| 2 | 2 | 1.25 | 5.75 | 455-1578-1-ND | .25 | 2.27 | 18.94 | 2,500 | 125.77/M | BM02B-GHS-TBT(LF)(SN)(N) |
| | 3 | 2.50 | 7.00 | 455-1579-1-ND | .26 | 2.45 | 20.42 | 2,500 | 135.60/M | BM03B-GHS-TBT(LF)(SN)(N) |
| | 4 | 3.75 | 8.25 | 455-1580-1-ND | .28 | 2.62 | 21.81 | 2,500 | 144.81/M | BM04B-GHS-TBT(LF)(SN)(N) |
| | 5 | 5.00 | 9.50 | 455-1581-1-ND | .30 | 2.74 | 22.83 | 2,500 | 151.62/M | BM05B-GHS-TBT(LF)(SN)(N) |
| | 6 | 6.25 | 10.75 | 455-1582-1-ND | .36 | 3.32 | 27.72 | 2,500 | 184.01/M | BM06B-GHS-TBT(LF)(SN) |
| | 7 | 7.50 | 12.00 | 455-1583-1-ND | .38 | 3.48 | 29.00 | 2,500 | 192.53/M | BM07B-GHS-TBT(LF)(SN)(N) |
| | 8 | 8.75 | 13.25 | 455-1584-1-ND | .38 | 3.48 | 29.02 | 2,500 | 192.69/M | BM08B-GHS-TBT(LF)(SN)(N) |
| | 9 | 10.00 | 14.50 | 455-1585-1-ND | .41 | 3.76 | 31.36 | 2,500 | 208.22/M | BM09B-GHS-TBT(LF)(SN) |
| | 10 | 11.25 | 15.75 | 455-1586-1-ND | .43 | 4.00 | 33.36 | 2,500 | 221.51/M | BM10B-GHS-TBT(LF)(SN) |
| | 12 | 13.75 | 18.25 | 455-1588-1-ND | .47 | 4.36 | 36.28 | 2,500 | 240.90/M | BM12B-GHS-TBT(LF)(SN)(N) |
| | 14 | 16.25 | 20.75 | 455-1590-1-ND | .50 | 4.65 | 38.80 | 2,500 | 257.60/M | BM14B-GHS-TBT(LF)(SN) |
| | 15 | 17.50 | 22.00 | 455-1591-1-ND | .52 | 4.81 | 40.14 | 2,500 | 266.48/M | BM15B-GHS-TBT(LF)(SN) |
| ***Side Entry*** | | | | | | | | | | |
| 3 | 2 | 1.25 | 5.75 | 455-1564-1-ND | .26 | 2.39 | 19.86 | 2,500 | 131.86/M | SM02B-GHS-TB(LF)(SN) |
| | 3 | 2.50 | 7.00 | 455-1565-1-ND | .27 | 2.53 | 21.09 | 2,500 | 140.04/M | SM03B-GHS-TB(LF)(SN) |
| | 4 | 3.75 | 8.25 | 455-1566-1-ND | .29 | 2.68 | 22.37 | 2,500 | 148.56/M | SM04B-GHS-TB(LF)(SN) |
| | 5 | 5.00 | 9.50 | 455-1567-1-ND | .30 | 2.83 | 23.55 | 2,500 | 156.37/M | SM05B-GHS-TB(LF)(SN) |
| | 6 | 6.25 | 10.75 | 455-1568-1-ND | .38 | 3.45 | 28.79 | 2,500 | 191.15/M | SM06B-GHS-TB(LF)(SN) |
| | 7 | 7.50 | 12.00 | 455-1569-1-ND | .39 | 3.59 | 29.92 | 2500 | 198.66/M | SM07B-GHS-TB(LF)(SN) |
| | 8 | 8.75 | 13.25 | 455-1570-1-ND | .42 | 3.85 | 32.07 | 2,500 | 212.98/M | SM08B-GHS-TB(LF)(SN) |
| | 9 | 10.00 | 14.50 | 455-1571-1-ND | .44 | 4.10 | 34.17 | 2,500 | 226.90/M | SM09B-GHS-TB(LF)(SN) |
| | 10 | 11.25 | 15.75 | 455-1572-1-ND | .46 | 4.24 | 35.31 | 2,500 | 234.42/M | SM10B-GHS-TB(LF)(SN) |
| | 11 | 12.50 | 17.00 | 455-1573-1-ND | .48 | 4.42 | 36.84 | 2,500 | 244.66/M | SM11B-GHS-TB(LF)(SN) |
| | 12 | 13.75 | 18.25 | 455-1574-1-ND | .50 | 4.59 | 38.23 | 2,500 | 253.85/M | SM12B-GHS-TB(LF)(SN) |
| | 13 | 15.00 | 19.50 | 455-1575-1-ND | .51 | 4.73 | 39.41 | 2,500 | 261.67/M | SM13B-GHS-TB(LF)(SN) |
| | 14 | 16.25 | 20.75 | 455-1576-1-ND | .53 | 4.87 | 40.54 | 2,500 | 269.20/M | SM14B-GHS-TB(LF)(SN) |
| | 15 | 17.50 | 22.00 | 455-1577-1-ND | .54 | 5.01 | 41.72 | 2,500 | 277.02/M | SM15B-GHS-TB(LF)(SN) |
| ***Contacts – Tin Plated*** | | | | | | | | | | |
| 30 ~ 26 AWG | | | | 455-1606-1-ND | .05 | .47 | 3.93 | 23,000 | 20.91/M | SSHL-002T-P0.2 |
| 30 ~ 26 AWG | | | | 455-1607-1-ND | .20 | 1.87 | 15.54 | 1,000 | 124.30 | MINI-SSHL-002T-P0.2 |
| ***Crimp Tools*** | | | | | | | | | | |
| 26 ~ 30 AWG | | | | 455-1609-ND | 882.64/1 | | | — | — | YRS-1140 |
| Mini Reel | | | | 455-1608-ND | 1264.74/1 | | | — | — | WC-GH2630 |

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.