

### G802 1.27mm Pin Headers PCB Mount

Board to Board system, modular, fine pitch.

#### Materials

Housing – 94V-0 thermoplastic  
Contacts – P/B with 50µ" Ni

#### Electrical

Current – 1A  
Voltage – 250 VAC/rms 60Hz

#### Durability

Gold Flash – 75 cycles  
15µ" Gold – 150 cycles  
30µ" Gold – 250 cycles

#### Mating Half

1.27mm SIL Rec – Page H-5  
1.27x1.27mm Rec – Page H-6  
1.27x2.54mm Rec – Page H-5

### Part Number System:

**G802 XXX X X X X**

**1.27mm Pin Headers**  
Through hole PCB Mount

#### NUMBER OF POSITIONS

Single row: 002 to 050  
Dual row: 006 to 100

#### CONNECTOR STYLE

1: Straight  
2: Right Angle (Request Diagrams)

#### MOUNTING STYLE

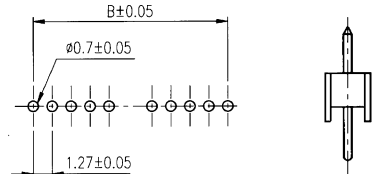
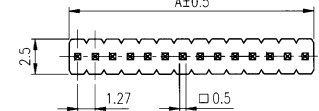
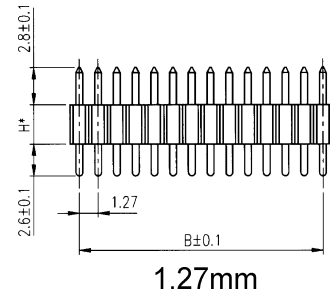
1: Single row  
2: Double row (1.27x2.54mm)  
3: Double row (1.27x1.27mm)

#### INSULATOR HEIGHT

1: 3mm  
2: 2.54mm  
3: 1.7mm  
4: 2.64mm (single row only)

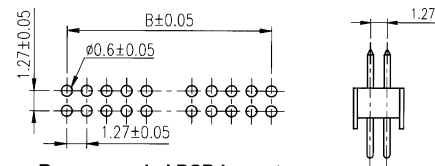
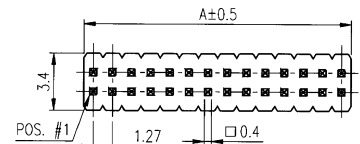
#### CONTACT FINISH

0: Full gold flash  
1: Gold flash  
2: 15µ" Gold  
3: 30µ" Gold

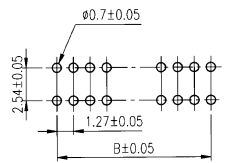


#### Recommended PCB Layout

1.27x1.27mm

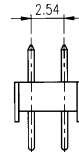
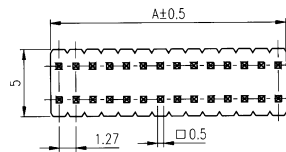


#### Recommended PCB Layout



#### Recommended PCB Layout

1.27x2.54mm



#### Single Row

| No. of Positions | Dimensions |       |
|------------------|------------|-------|
|                  | A          | B     |
| 2                | 2.54       | 1.27  |
| 3                | 3.81       | 2.54  |
| 4                | 5.08       | 3.81  |
| 5                | 6.35       | 5.08  |
| 6                | 7.62       | 6.35  |
| 7                | 8.89       | 7.62  |
| 8                | 10.16      | 8.89  |
| 9                | 11.43      | 10.16 |
| 10               | 12.7       | 11.43 |
| 11               | 13.97      | 12.7  |
| 12               | 15.24      | 13.97 |
| 13               | 16.51      | 15.24 |
| 14               | 17.78      | 16.51 |

| No. of Positions | Dimensions |       |
|------------------|------------|-------|
|                  | A          | B     |
| 15               | 19.05      | 17.78 |
| 16               | 20.32      | 19.05 |
| 17               | 21.59      | 20.32 |
| 18               | 22.86      | 21.59 |
| 19               | 24.13      | 22.86 |
| 20               | 25.4       | 24.13 |
| 21               | 26.67      | 25.4  |
| 22               | 27.94      | 26.67 |
| 23               | 29.21      | 27.94 |
| 24               | 30.48      | 29.21 |
| 25               | 31.75      | 30.48 |
| 26               | 33.02      | 31.75 |

| No. of Positions | Dimensions |       |
|------------------|------------|-------|
|                  | A          | B     |
| 27               | 34.29      | 33.02 |
| 28               | 35.56      | 34.29 |
| 29               | 36.83      | 35.56 |
| 30               | 38.1       | 36.83 |
| 31               | 39.37      | 38.1  |
| 32               | 40.64      | 39.37 |
| 33               | 41.91      | 40.64 |
| 34               | 43.18      | 41.91 |
| 35               | 44.45      | 43.18 |
| 36               | 45.72      | 44.45 |
| 37               | 46.99      | 45.72 |
| 38               | 48.26      | 46.99 |

| No. of Positions | Dimensions |       |
|------------------|------------|-------|
|                  | A          | B     |
| 39               | 49.53      | 48.26 |
| 40               | 50.8       | 49.53 |
| 41               | 52.07      | 50.8  |
| 42               | 53.34      | 52.07 |
| 43               | 54.61      | 53.34 |
| 44               | 55.88      | 54.61 |
| 45               | 57.15      | 55.88 |
| 46               | 58.42      | 57.15 |
| 47               | 59.69      | 58.42 |
| 48               | 60.96      | 59.69 |
| 49               | 62.23      | 60.96 |
| 50               | 63.5       | 62.23 |

#### Double Row

| No. of Positions | Dimensions |       |
|------------------|------------|-------|
|                  | A          | B     |
| 6                | 3.81       | 2.54  |
| 8                | 5.08       | 3.81  |
| 10               | 6.35       | 5.08  |
| 12               | 7.62       | 6.35  |
| 14               | 8.89       | 7.62  |
| 16               | 10.16      | 8.89  |
| 18               | 11.43      | 10.16 |
| 20               | 12.7       | 11.43 |
| 22               | 13.97      | 12.7  |
| 24               | 15.24      | 13.97 |
| 26               | 16.51      | 15.24 |
| 28               | 17.78      | 16.51 |

| No. of Positions | Dimensions |       |
|------------------|------------|-------|
|                  | A          | B     |
| 30               | 19.05      | 17.78 |
| 32               | 20.32      | 19.05 |
| 34               | 21.59      | 20.32 |
| 36               | 22.86      | 21.59 |
| 38               | 24.13      | 22.86 |
| 40               | 25.4       | 24.13 |
| 42               | 26.67      | 25.4  |
| 44               | 27.94      | 26.67 |
| 46               | 29.21      | 27.94 |
| 48               | 30.48      | 29.21 |
| 50               | 31.75      | 30.48 |
| 52               | 33.02      | 31.75 |

| No. of Positions | Dimensions |       |
|------------------|------------|-------|
|                  | A          | B     |
| 54               | 34.29      | 33.02 |
| 56               | 35.56      | 34.29 |
| 58               | 36.83      | 35.56 |
| 60               | 38.1       | 36.83 |
| 62               | 39.37      | 38.1  |
| 64               | 40.64      | 39.37 |
| 66               | 41.91      | 40.64 |
| 68               | 43.18      | 41.91 |
| 70               | 44.45      | 43.18 |
| 72               | 45.72      | 44.45 |
| 74               | 46.99      | 45.72 |
| 76               | 48.26      | 46.99 |

| No. of Positions | Dimensions |       |
|------------------|------------|-------|
|                  | A          | B     |
| 78               | 49.53      | 48.26 |
| 80               | 50.8       | 49.53 |
| 82               | 52.07      | 50.8  |
| 84               | 53.34      | 52.07 |
| 86               | 54.61      | 53.34 |
| 88               | 55.88      | 54.61 |
| 90               | 57.15      | 55.88 |
| 92               | 58.42      | 57.15 |
| 94               | 59.69      | 58.42 |
| 96               | 60.96      | 59.69 |
| 98               | 62.23      | 60.96 |
| 100              | 63.5       | 62.23 |

For further variations and information, consult representative

### G802A 1.27mm Board Spacer Pin Headers PCB Mount

Board to Board system, modular, fine pitch.

#### Materials

Housing – 94V-0 thermoplastic  
Contacts – P/B with 50µ" Ni

#### Electrical

Current – 1A  
Voltage – 250 VAC/rms 60Hz

#### Durability

Gold Flash – 75 cycles  
15µ" Gold – 150 cycles  
30µ" Gold – 250 cycles

#### Mating Half

1.27mm SIL Rec – Page H-5  
1.27x2.54mm Rec – Page H-5

### Part Number System:

**G802A XXX X X X**

#### 1.27mm Pin Headers

Through hole PCB Mount Board Spacer

#### VARIATION CODE

Blank: Standard

#### NUMBER OF POSITIONS

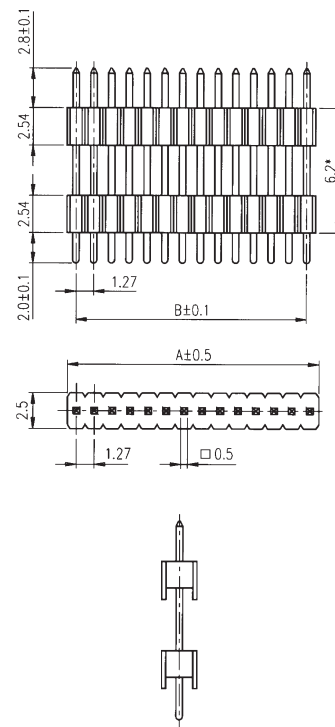
Single row: 002 to 050  
Dual row: 004 to 100

#### CONTACT FINISH

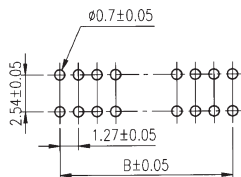
0: Full gold flash  
1: Gold flash  
2: 15µ" Gold  
3: 30µ" Gold

#### MOUNTING STYLE

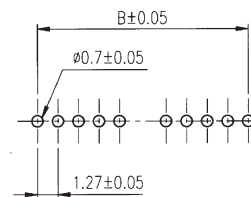
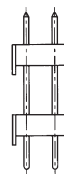
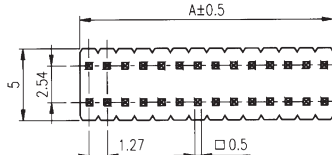
1: Single row  
2: Double row (1.27x2.54mm)



1.27x2.54mm



Recommended PCB Layout



Recommended PCB Layout

| Single Row       |            |       |  |                  |            |       |  |                  |            |       |  |                  |            |       |
|------------------|------------|-------|--|------------------|------------|-------|--|------------------|------------|-------|--|------------------|------------|-------|
| No. of Positions | Dimensions |       |  | No. of Positions | Dimensions |       |  | No. of Positions | Dimensions |       |  | No. of Positions | Dimensions |       |
|                  | A          | B     |  |                  | A          | B     |  |                  | A          | B     |  |                  | A          | B     |
| 2                | 2.54       | 1.27  |  | 15               | 19.05      | 17.78 |  | 27               | 34.29      | 33.02 |  | 39               | 49.53      | 48.26 |
| 3                | 3.81       | 2.54  |  | 16               | 20.32      | 19.05 |  | 28               | 35.56      | 34.29 |  | 40               | 50.8       | 49.53 |
| 4                | 5.08       | 3.81  |  | 17               | 21.59      | 20.32 |  | 29               | 36.83      | 35.56 |  | 41               | 52.07      | 50.8  |
| 5                | 6.35       | 5.08  |  | 18               | 22.86      | 21.59 |  | 30               | 38.1       | 36.83 |  | 42               | 53.34      | 52.07 |
| 6                | 7.62       | 6.35  |  | 19               | 24.13      | 22.86 |  | 31               | 39.37      | 38.1  |  | 43               | 54.61      | 53.34 |
| 7                | 8.89       | 7.62  |  | 20               | 25.4       | 24.13 |  | 32               | 40.64      | 39.37 |  | 44               | 55.88      | 54.61 |
| 8                | 10.16      | 8.89  |  | 21               | 26.67      | 25.4  |  | 33               | 41.91      | 40.64 |  | 45               | 57.15      | 55.88 |
| 9                | 11.43      | 10.16 |  | 22               | 27.94      | 26.67 |  | 34               | 43.18      | 41.91 |  | 46               | 58.42      | 57.15 |
| 10               | 12.7       | 11.43 |  | 23               | 29.21      | 27.94 |  | 35               | 44.45      | 43.18 |  | 47               | 59.69      | 58.42 |
| 11               | 13.97      | 12.7  |  | 24               | 30.48      | 29.21 |  | 36               | 45.72      | 44.45 |  | 48               | 60.96      | 59.69 |
| 12               | 15.24      | 13.97 |  | 25               | 31.75      | 30.48 |  | 37               | 46.99      | 45.72 |  | 49               | 62.23      | 60.96 |
| 13               | 16.51      | 15.24 |  | 26               | 33.02      | 31.75 |  | 38               | 48.26      | 46.99 |  | 50               | 63.5       | 62.23 |
| 14               | 17.78      | 16.51 |  |                  |            |       |  |                  |            |       |  |                  |            |       |

| Double Row       |            |       |  |                  |            |       |  |                  |            |       |  |                  |            |       |
|------------------|------------|-------|--|------------------|------------|-------|--|------------------|------------|-------|--|------------------|------------|-------|
| No. of Positions | Dimensions |       |  | No. of Positions | Dimensions |       |  | No. of Positions | Dimensions |       |  | No. of Positions | Dimensions |       |
|                  | A          | B     |  |                  | A          | B     |  |                  | A          | B     |  |                  | A          | B     |
| 4                | 2.54       | 1.27  |  | 30               | 19.05      | 17.78 |  | 54               | 34.29      | 33.02 |  | 78               | 49.53      | 48.26 |
| 6                | 3.81       | 2.54  |  | 32               | 20.32      | 19.05 |  | 56               | 35.56      | 34.29 |  | 80               | 50.8       | 49.53 |
| 8                | 5.08       | 3.81  |  | 34               | 21.59      | 20.32 |  | 58               | 36.83      | 35.56 |  | 82               | 52.07      | 50.8  |
| 10               | 6.35       | 5.08  |  | 36               | 22.86      | 21.59 |  | 60               | 38.1       | 36.83 |  | 84               | 53.34      | 52.07 |
| 12               | 7.62       | 6.35  |  | 38               | 24.13      | 22.86 |  | 62               | 39.37      | 38.1  |  | 86               | 54.61      | 53.34 |
| 14               | 8.89       | 7.62  |  | 40               | 25.4       | 24.13 |  | 64               | 40.64      | 39.37 |  | 88               | 55.88      | 54.61 |
| 16               | 10.16      | 8.89  |  | 42               | 26.67      | 25.4  |  | 66               | 41.91      | 40.64 |  | 90               | 57.15      | 55.88 |
| 18               | 11.43      | 10.16 |  | 44               | 27.94      | 26.67 |  | 68               | 43.18      | 41.91 |  | 92               | 58.42      | 57.15 |
| 20               | 12.7       | 11.43 |  | 46               | 29.21      | 27.94 |  | 70               | 44.45      | 43.18 |  | 94               | 59.69      | 58.42 |
| 22               | 13.97      | 12.7  |  | 48               | 30.48      | 29.21 |  | 72               | 45.72      | 44.45 |  | 96               | 60.96      | 59.69 |
| 24               | 15.24      | 13.97 |  | 50               | 31.75      | 30.48 |  | 74               | 46.99      | 45.72 |  | 98               | 62.23      | 60.96 |
| 26               | 16.51      | 15.24 |  | 52               | 33.02      | 31.75 |  | 76               | 48.26      | 46.99 |  | 100              | 63.5       | 62.23 |
| 28               | 17.78      | 16.51 |  |                  |            |       |  |                  |            |       |  |                  |            |       |

Various board space distances are available, consult representative

For further variations and information, consult representative

### G802M 1.27mm Pin Headers SMT Mount

Board to wire system, modular, fine pitch, SMT type.

#### Materials

Housing – 94V-0 thermoplastic  
Contacts – P/B with 50µ" Ni

#### Electrical

Current – 1A  
Voltage – 250 VAC/rms 60Hz

#### Durability

Gold Flash – 75 cycles  
15µ" Gold – 150 cycles  
30µ" Gold – 250 cycles

#### Mating Half

1.27mm SIL Rec – Page H-5  
1.27x1.27mm Rec – Page H-6  
1.27x2.54mm Rec – Page H-5

### Part Number System:

**G802M XXX X X X X**

**1.27mm Pin Headers**  
SMT Mount

#### NUMBER OF POSITIONS

Single row: 002 to 050  
Dual row: 004 to 100

#### MOUNTING STYLE

1: Single row  
2: Double row (1.27x2.54mm)  
3: Double row (1.27x1.27mm)

#### VARIATION CODE

Blank: Standard

#### INSULATOR HEIGHT

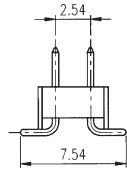
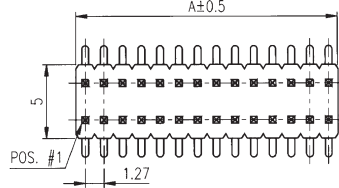
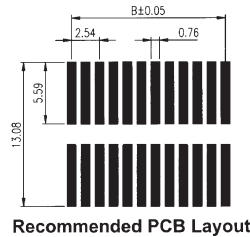
1: 3mm  
2: 2.54mm  
3: 1.7mm  
4: 2.64mm (single row only)

#### CONTACT FINISH

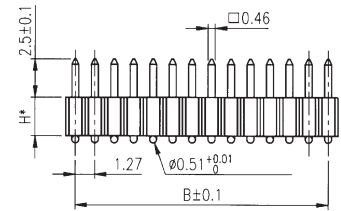
1: Gold flash  
2: 15µ" Gold  
3: 30µ" Gold

PNS-802M Rev.B

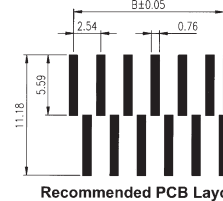
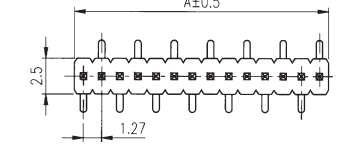
1.27x2.54mm



Recommended PCB Layout

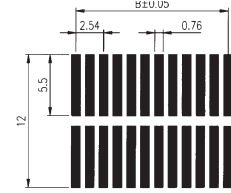
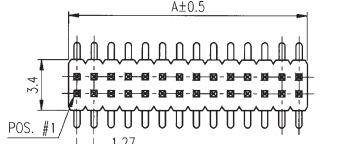


1.27mm

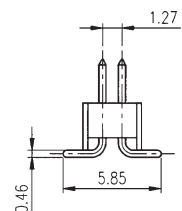
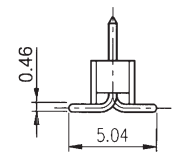


Recommended PCB Layout

1.27x1.27mm



Recommended PCB Layout



#### Single Row

| No. of Positions | Dimensions |       | No. of Positions | Dimensions |       | No. of Positions | Dimensions |       | No. of Positions | Dimensions |       |
|------------------|------------|-------|------------------|------------|-------|------------------|------------|-------|------------------|------------|-------|
|                  | A          | B     |                  | A          | B     |                  | A          | B     |                  | A          | B     |
| 2                | 2.54       | 1.27  | 15               | 19.05      | 17.78 | 27               | 34.29      | 33.02 | 39               | 49.53      | 48.26 |
| 3                | 3.81       | 2.54  | 16               | 20.32      | 19.05 | 28               | 35.56      | 34.29 | 40               | 50.8       | 49.53 |
| 4                | 5.08       | 3.81  | 17               | 21.59      | 20.32 | 29               | 36.83      | 35.56 | 41               | 52.07      | 50.8  |
| 5                | 6.35       | 5.08  | 18               | 22.86      | 21.59 | 30               | 38.1       | 36.83 | 42               | 53.34      | 52.07 |
| 6                | 7.62       | 6.35  | 19               | 24.13      | 22.86 | 31               | 39.37      | 38.1  | 43               | 54.61      | 53.34 |
| 7                | 8.89       | 7.62  | 20               | 25.4       | 24.13 | 32               | 40.64      | 39.37 | 44               | 55.88      | 54.61 |
| 8                | 10.16      | 8.89  | 21               | 26.67      | 25.4  | 33               | 41.91      | 40.64 | 45               | 57.15      | 55.88 |
| 9                | 11.43      | 10.16 | 22               | 27.94      | 26.67 | 34               | 43.18      | 41.91 | 46               | 58.42      | 57.15 |
| 10               | 12.7       | 11.43 | 23               | 29.21      | 27.94 | 35               | 44.45      | 43.18 | 47               | 59.69      | 58.42 |
| 11               | 13.97      | 12.7  | 24               | 30.48      | 29.21 | 36               | 45.72      | 44.45 | 48               | 60.96      | 59.69 |
| 12               | 15.24      | 13.97 | 25               | 31.75      | 30.48 | 37               | 46.99      | 45.72 | 49               | 62.23      | 60.96 |
| 13               | 16.51      | 15.24 | 26               | 33.02      | 31.75 | 38               | 48.26      | 46.99 | 50               | 63.5       | 62.23 |
| 14               | 17.78      | 16.51 |                  |            |       |                  |            |       |                  |            |       |

#### Double Row

| No. of Positions | Dimensions |       | No. of Positions | Dimensions |       | No. of Positions | Dimensions |       | No. of Positions | Dimensions |       |
|------------------|------------|-------|------------------|------------|-------|------------------|------------|-------|------------------|------------|-------|
|                  | A          | B     |                  | A          | B     |                  | A          | B     |                  | A          | B     |
| 4                | 2.54       | 1.27  | 30               | 19.05      | 17.78 | 54               | 34.29      | 33.02 | 78               | 49.53      | 48.26 |
| 6                | 3.81       | 2.54  | 32               | 20.32      | 19.05 | 56               | 35.56      | 34.29 | 80               | 50.8       | 49.53 |
| 8                | 5.08       | 3.81  | 34               | 21.59      | 20.32 | 58               | 36.83      | 35.56 | 82               | 52.07      | 50.8  |
| 10               | 6.35       | 5.08  | 36               | 22.86      | 21.59 | 60               | 38.1       | 36.83 | 84               | 53.34      | 52.07 |
| 12               | 7.62       | 6.35  | 38               | 24.13      | 22.86 | 62               | 39.37      | 38.1  | 86               | 54.61      | 53.34 |
| 14               | 8.89       | 7.62  | 40               | 25.4       | 24.13 | 64               | 40.64      | 39.37 | 88               | 55.88      | 54.61 |
| 16               | 10.16      | 8.89  | 42               | 26.67      | 25.4  | 66               | 41.91      | 40.64 | 90               | 57.15      | 55.88 |
| 18               | 11.43      | 10.16 | 44               | 27.94      | 26.67 | 68               | 43.18      | 41.91 | 92               | 58.42      | 57.15 |
| 20               | 12.7       | 11.43 | 46               | 29.21      | 27.94 | 70               | 44.45      | 43.18 | 94               | 59.69      | 58.42 |
| 22               | 13.97      | 12.7  | 48               | 30.48      | 29.21 | 72               | 45.72      | 44.45 | 96               | 60.96      | 59.69 |
| 24               | 15.24      | 13.97 | 50               | 31.75      | 30.48 | 74               | 46.99      | 45.72 | 98               | 62.23      | 60.96 |
| 26               | 16.51      | 15.24 | 52               | 33.02      | 31.75 | 76               | 48.26      | 46.99 | 100              | 63.5       | 62.23 |
| 28               | 17.78      | 16.51 |                  |            |       |                  |            |       |                  |            |       |

For further variations and information, consult representative

### G809 1.27mm Receptacles PCB/SMT Mount

Board to Board system, modular, fine pitch.

#### Materials

Housing – 94V-0 thermoplastic  
Contacts – P/B with 50µ" Ni

#### Electrical

Current – 1A  
Voltage – 250 VAC/rms 60Hz

#### Durability

Gold Flash – 75 cycles  
15µ" Gold – 150 cycles  
30µ" Gold – 250 cycles

#### Mating Half

1.27mm SIL PH – Page H-2/3/4  
1.27x1.27mm PH – Page H-2/4  
1.27x2.54mm PH – Page H-2/3/4

### Part Number System:

**G809 X XXX X X X X**

**1.27mm Receptacles**  
PCB/SMT Mount

#### MOUNTING STYLE

- 1: Single row
- 2: Double row (1.27x2.54mm)
- 3: Single row SMT B1 type
- 4: Single row SMT B2 type
- 5: Double row SMT (1.27x2.54mm)

#### NUMBER OF POSITIONS

Single row: 002 to 050  
Double row: 004 to 100  
Single row SMT: 003 to 050  
Double row SMT: 006 to 100

PNS-8098 Rev.C

#### VARIAION CODE

Blank: Standard

#### BOARD MOUNTING STYLE

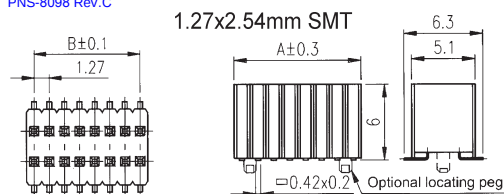
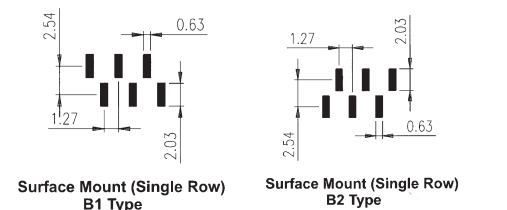
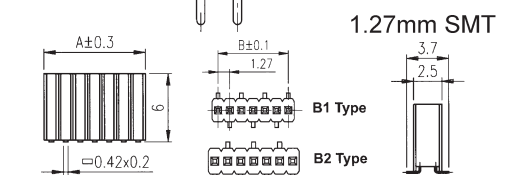
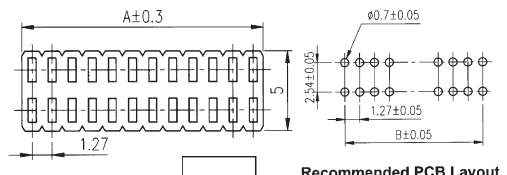
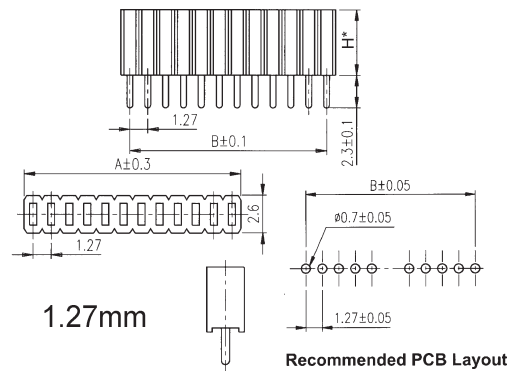
- 1: Standard
- 2: With locating peg  
(1.27x2.54mm SMT only)

#### INSULATOR HEIGHT

- 1: 4.6mm (PCB only)
- 2: 8.5mm (PCB only)

#### CONTACT FINISH

- 1: Gold flash
- 2: 15µ" Gold
- 3: 30µ" Gold



Recommended PCB Layouts

| Through-hole PCB Mount |     |            |       |     |                  |       |            |     |     |                  |       |            |     |       |       |
|------------------------|-----|------------|-------|-----|------------------|-------|------------|-----|-----|------------------|-------|------------|-----|-------|-------|
| No. of Positions       |     | Dimensions |       |     | No. of Positions |       | Dimensions |     |     | No. of Positions |       | Dimensions |     |       |       |
|                        |     | A          | B     |     |                  |       | A          | B   |     |                  |       | A          | B   |       |       |
| SIL                    | DIL |            |       | SIL | DIL              | A     | B          | SIL | DIL | A                | B     | SIL        | DIL | A     | B     |
| 2                      | 4   | 2.54       | 1.27  | 15  | 30               | 19.05 | 17.78      | 27  | 54  | 34.29            | 33.02 | 39         | 78  | 49.53 | 48.26 |
| 3                      | 6   | 3.81       | 2.54  | 16  | 32               | 20.32 | 19.05      | 28  | 56  | 35.56            | 34.29 | 40         | 80  | 50.8  | 49.53 |
| 4                      | 8   | 5.08       | 3.81  | 17  | 34               | 21.59 | 20.32      | 29  | 58  | 36.83            | 35.56 | 41         | 82  | 52.07 | 50.8  |
| 5                      | 10  | 6.35       | 5.08  | 18  | 36               | 22.86 | 21.59      | 30  | 60  | 38.1             | 36.83 | 42         | 84  | 53.34 | 52.07 |
| 6                      | 12  | 7.62       | 6.35  | 19  | 38               | 24.13 | 22.86      | 31  | 62  | 39.37            | 38.1  | 43         | 86  | 54.61 | 53.34 |
| 7                      | 14  | 8.89       | 7.62  | 20  | 40               | 25.4  | 24.13      | 32  | 64  | 40.64            | 39.37 | 44         | 88  | 55.88 | 54.61 |
| 8                      | 16  | 10.16      | 8.89  | 21  | 42               | 26.67 | 25.4       | 33  | 66  | 41.91            | 40.64 | 45         | 90  | 57.15 | 55.88 |
| 9                      | 18  | 11.43      | 10.16 | 22  | 44               | 27.94 | 26.67      | 34  | 68  | 43.18            | 41.91 | 46         | 92  | 58.42 | 57.15 |
| 10                     | 20  | 12.7       | 11.43 | 23  | 46               | 29.21 | 27.94      | 35  | 70  | 44.45            | 43.18 | 47         | 94  | 59.69 | 58.42 |
| 11                     | 22  | 13.97      | 12.7  | 24  | 48               | 30.48 | 29.21      | 36  | 72  | 45.72            | 44.45 | 48         | 96  | 60.96 | 59.69 |
| 12                     | 24  | 15.24      | 13.97 | 25  | 50               | 31.75 | 30.48      | 37  | 74  | 46.99            | 45.72 | 49         | 98  | 62.23 | 60.96 |
| 13                     | 26  | 16.51      | 15.24 | 26  | 52               | 33.02 | 31.75      | 38  | 76  | 48.26            | 46.99 | 50         | 100 | 63.5  | 62.23 |
| 14                     | 28  | 17.78      | 16.51 |     |                  |       |            |     |     |                  |       |            |     |       |       |

| SMT Mount        |     |            |       |                  |     |            |       |                  |     |            |       |                  |     |            |       |
|------------------|-----|------------|-------|------------------|-----|------------|-------|------------------|-----|------------|-------|------------------|-----|------------|-------|
| No. of Positions |     | Dimensions |       | No. of Positions |     | Dimensions |       | No. of Positions |     | Dimensions |       | No. of Positions |     | Dimensions |       |
|                  |     |            |       |                  |     |            |       |                  |     |            |       |                  |     |            |       |
| SIL              | DIL | A          | B     | SIL              | DIL | A          | B     | SIL              | DIL | A          | B     | SIL              | DIL | A          | B     |
| 3                | 6   | 4.04       | 2.54  | 15               | 30  | 19.28      | 17.78 | 27               | 54  | 34.52      | 33.02 | 39               | 78  | 49.76      | 48.26 |
| 4                | 8   | 5.31       | 3.81  | 16               | 32  | 20.55      | 19.05 | 28               | 56  | 35.79      | 34.29 | 40               | 80  | 51.03      | 49.53 |
| 5                | 10  | 6.58       | 5.08  | 17               | 34  | 21.82      | 20.32 | 29               | 58  | 37.06      | 35.56 | 41               | 82  | 52.3       | 50.8  |
| 6                | 12  | 7.85       | 6.35  | 18               | 36  | 23.09      | 21.59 | 30               | 60  | 38.33      | 36.83 | 42               | 84  | 53.57      | 52.07 |
| 7                | 14  | 9.12       | 7.62  | 19               | 38  | 24.36      | 22.86 | 31               | 62  | 39.6       | 38.1  | 43               | 86  | 54.84      | 53.34 |
| 8                | 16  | 10.39      | 8.89  | 20               | 40  | 25.63      | 24.13 | 32               | 64  | 40.87      | 39.37 | 44               | 88  | 56.11      | 54.61 |
| 9                | 18  | 11.66      | 10.16 | 21               | 42  | 26.9       | 25.4  | 33               | 66  | 42.14      | 40.64 | 45               | 90  | 57.38      | 55.88 |
| 10               | 20  | 12.93      | 11.43 | 22               | 44  | 28.17      | 26.67 | 34               | 68  | 43.41      | 41.91 | 46               | 92  | 58.65      | 57.15 |
| 11               | 22  | 14.2       | 12.7  | 23               | 46  | 29.44      | 27.94 | 35               | 70  | 44.68      | 43.18 | 47               | 94  | 59.92      | 58.42 |
| 12               | 24  | 15.47      | 13.97 | 24               | 48  | 30.71      | 29.21 | 36               | 72  | 45.95      | 44.45 | 48               | 96  | 61.19      | 59.69 |
| 13               | 26  | 16.74      | 15.24 | 25               | 50  | 31.98      | 30.48 | 37               | 74  | 47.22      | 45.72 | 49               | 98  | 62.46      | 60.96 |
| 14               | 28  | 18.01      | 16.51 | 26               | 52  | 33.25      | 31.75 | 38               | 76  | 48.49      | 46.99 | 50               | 100 | 63.73      | 62.23 |

For further variations and information, consult representative

### G809A 1.27x1.27mm Receptacles PCB/SMT Mount

Board to Board system, modular, fine pitch.

#### Materials

Housing – 94V-0 thermoplastic  
Contacts – P/B with 50µ" Ni

#### Electrical

Current – 1A  
Voltage – 250 VAC/rms 60Hz

#### Durability

Gold Flash – 75 cycles  
15µ" Gold – 150 cycles  
30µ" Gold – 250 cycles

#### Mating Half

1.27x1.27mm PH – Page H-2/4

### Part Number System:

**G809A X XXX X X X**

**1.27x1.27mm Receptacles**  
PCB/SMT Mount

#### MOUNTING STYLE

1: PCB Mount  
2: SMT Mount

#### NUMBER OF POSITIONS

006 to 100

#### MOUNT STYLE

0: \*Without Locating Peg  
1: With Locating Peg  
\* Standard

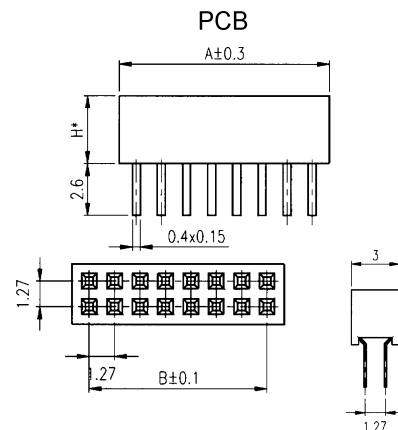
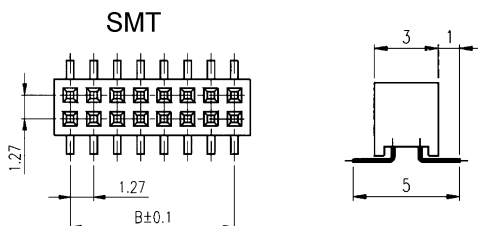
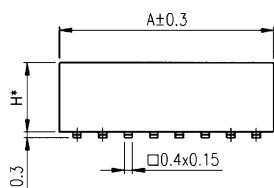
#### INSULATOR HEIGHT

1: 3.4mm  
2: 4.3mm

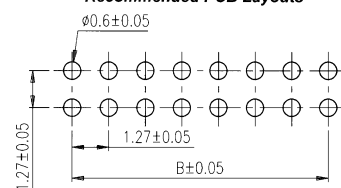
#### CONTACT FINISH

1: Gold flash  
2: 15µ" Gold  
3: 30µ" Gold

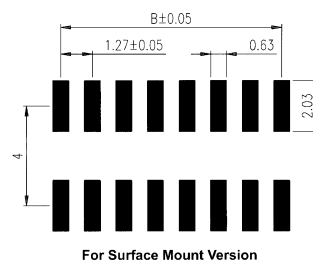
PNS-809A Rev.B



#### Recommended PCB Layouts



#### For PCB Mount (DIP) Version



#### For Surface Mount Version

#### Through-hole PCB Mount

| No. of Positions | Dimensions |       | No. of Positions | Dimensions |       | No. of Positions | Dimensions |       | No. of Positions | Dimensions |       |
|------------------|------------|-------|------------------|------------|-------|------------------|------------|-------|------------------|------------|-------|
|                  | A          | B     |                  | A          | B     |                  | A          | B     |                  | A          | B     |
| 6                | 4.27       | 2.54  | 30               | 19.51      | 17.78 | 54               | 34.75      | 33.02 | 78               | 49.99      | 48.26 |
| 8                | 5.54       | 3.81  | 32               | 20.78      | 19.05 | 56               | 36.02      | 34.29 | 80               | 51.26      | 49.53 |
| 10               | 6.81       | 5.08  | 34               | 22.05      | 20.32 | 58               | 37.29      | 35.56 | 82               | 52.53      | 50.8  |
| 12               | 8.08       | 6.35  | 36               | 23.32      | 21.59 | 60               | 38.56      | 36.83 | 84               | 53.8       | 52.07 |
| 14               | 9.35       | 7.62  | 38               | 24.59      | 22.86 | 62               | 39.83      | 38.1  | 86               | 55.07      | 53.34 |
| 16               | 10.62      | 8.89  | 40               | 25.86      | 24.13 | 64               | 41.1       | 39.37 | 88               | 56.34      | 54.61 |
| 18               | 11.89      | 10.16 | 42               | 27.13      | 25.4  | 66               | 42.37      | 40.64 | 90               | 57.61      | 55.88 |
| 20               | 13.16      | 11.43 | 44               | 28.40      | 26.67 | 68               | 43.64      | 41.91 | 92               | 58.88      | 57.15 |
| 22               | 14.43      | 12.7  | 46               | 29.67      | 27.94 | 70               | 44.91      | 43.18 | 94               | 60.15      | 58.42 |
| 24               | 15.7       | 13.97 | 48               | 30.94      | 29.21 | 72               | 46.18      | 44.45 | 96               | 61.42      | 59.69 |
| 26               | 16.97      | 15.24 | 50               | 32.21      | 30.48 | 74               | 47.45      | 45.72 | 98               | 62.69      | 60.96 |
| 28               | 18.24      | 16.51 | 52               | 33.48      | 31.75 | 76               | 48.72      | 46.99 | 100              | 63.96      | 62.23 |

#### SMT Mount

| No. of Positions | Dimensions |       | No. of Positions | Dimensions |       | No. of Positions | Dimensions |       | No. of Positions | Dimensions |       |
|------------------|------------|-------|------------------|------------|-------|------------------|------------|-------|------------------|------------|-------|
|                  | A          | B     |                  | A          | B     |                  | A          | B     |                  | A          | B     |
| 6                | 4.27       | 2.54  | 30               | 19.51      | 17.78 | 54               | 34.75      | 33.02 | 78               | 49.99      | 48.26 |
| 8                | 5.54       | 3.81  | 32               | 20.78      | 19.05 | 56               | 36.02      | 34.29 | 80               | 51.26      | 49.53 |
| 10               | 6.81       | 5.08  | 34               | 22.05      | 20.32 | 58               | 37.29      | 35.56 | 82               | 52.53      | 50.8  |
| 12               | 8.08       | 6.35  | 36               | 23.32      | 21.59 | 60               | 38.56      | 36.83 | 84               | 53.8       | 52.07 |
| 14               | 9.35       | 7.62  | 38               | 24.59      | 22.86 | 62               | 39.83      | 38.1  | 86               | 55.07      | 53.34 |
| 16               | 10.62      | 8.89  | 40               | 25.86      | 24.13 | 64               | 41.1       | 39.37 | 88               | 56.34      | 54.61 |
| 18               | 11.89      | 10.16 | 42               | 27.13      | 25.4  | 66               | 42.37      | 40.64 | 90               | 57.61      | 55.88 |
| 20               | 13.16      | 11.43 | 44               | 28.40      | 26.67 | 68               | 43.64      | 41.91 | 92               | 58.88      | 57.15 |
| 22               | 14.43      | 12.7  | 46               | 29.67      | 27.94 | 70               | 44.91      | 43.18 | 94               | 60.15      | 58.42 |
| 24               | 15.7       | 13.97 | 48               | 30.94      | 29.21 | 72               | 46.18      | 44.45 | 96               | 61.42      | 59.69 |
| 26               | 16.97      | 15.24 | 50               | 32.21      | 30.48 | 74               | 47.45      | 45.72 | 98               | 62.69      | 60.96 |
| 28               | 18.24      | 16.51 | 52               | 33.48      | 31.75 | 76               | 48.72      | 46.99 | 100              | 63.96      | 62.23 |

For further variations and information, consult representative