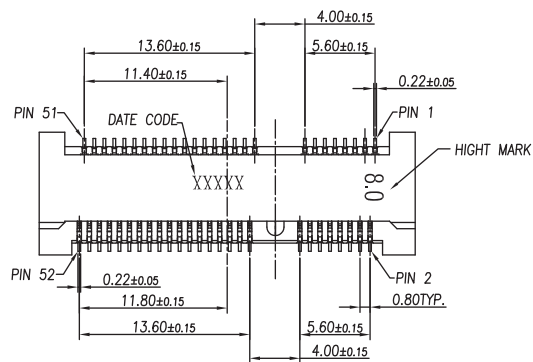


Recommended Module Insertion Angle

#### Mating Card Support Information

For Part Number, Ordering and PCB Layout Information  
On Latch Support Mechanism, Please See Pages 3-4  
For Part Number, Ordering and PCB Layout Information  
On Standoff Supports, Please See Page 5

#### NOTES:

##### Electrical characteristics:

Voltage rating: 50V AC per contact;  
Current rating: 0.5 AMP per contact;  
Dielectric withstanding voltage: 300V AC RMS (Min);  
Insulation resistance: 500 Megohms at 500V DC Min;  
Contact resistance: 55 milliohms Max

##### Material:

Housing: U.L. 94V-0 High Temperature Thermo Plastic, Black  
Contact: Copper Alloy  
Contact Plating: Specified Gold Thickness In Contact Area,  
Tin Plated Solder Tail, All Over 50u" Nickel Subplate  
Operating Temperature: -55° ~ 80° C

#### HOW TO ORDER:

**B 0 3 2 - 5 2 4 1 - 1 0 X - Z**

**# OF CIRCUITS**  
52

**COLOR**  
1 - Black

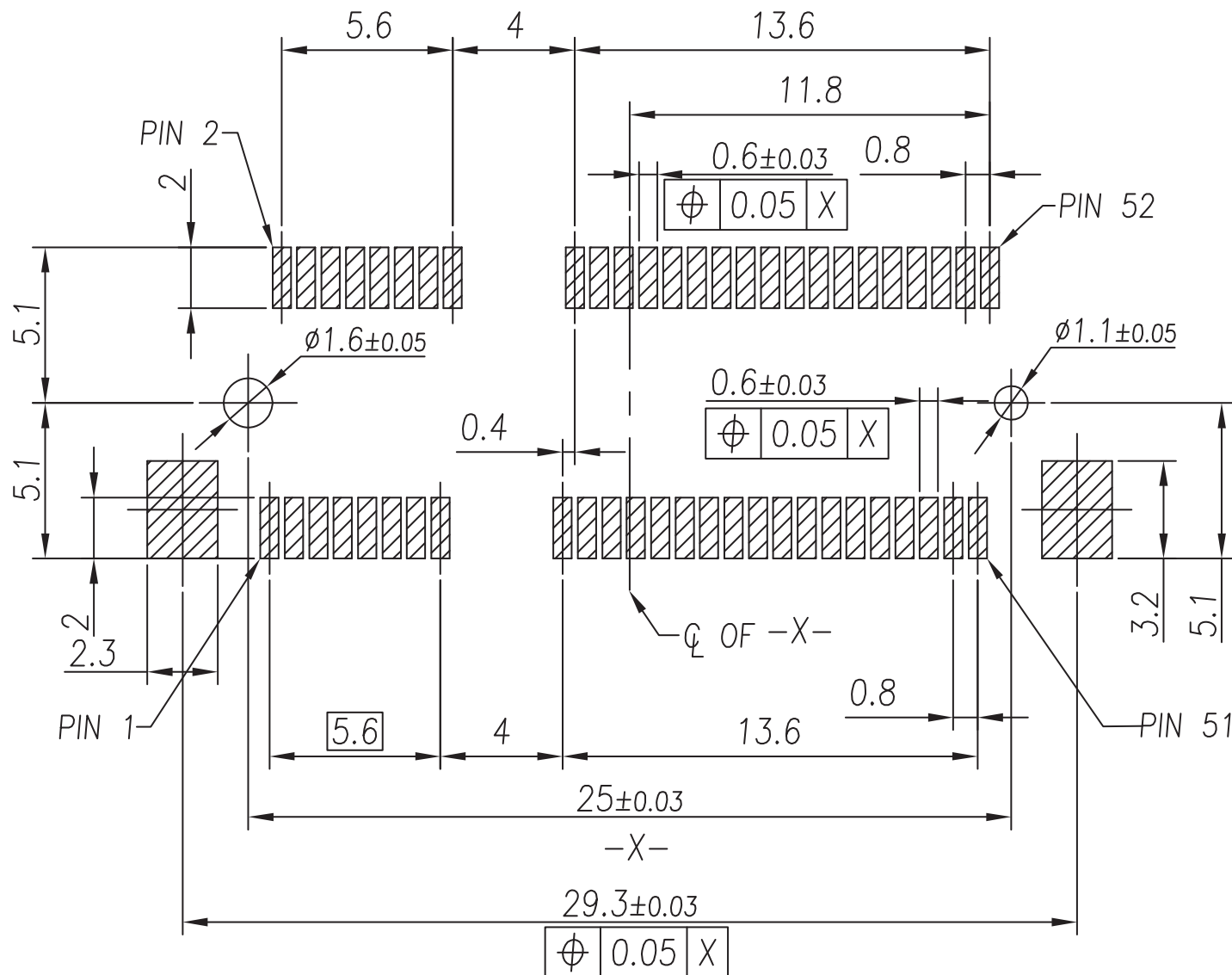
**SELECTIVE PLATING**  
0 - Gold Flash  
2 - 10u" Gold

**RoHS COMPLIANT**

#### Mechanical Specifications:

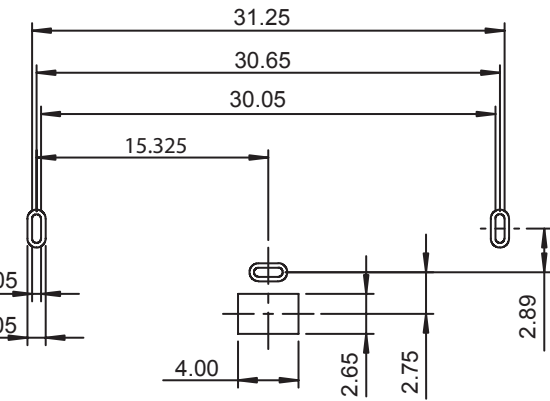
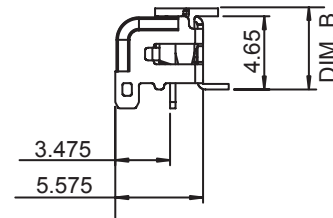
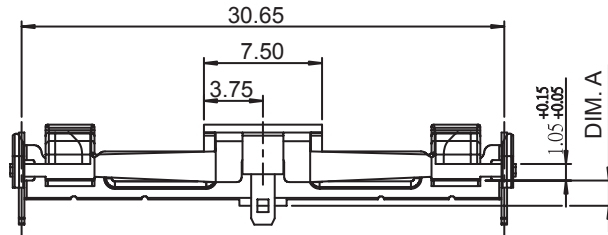
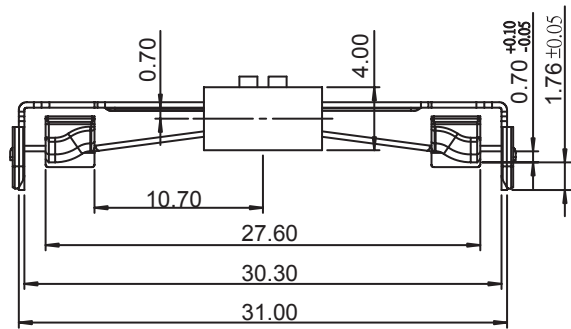
PCB Insertion Force: 2.3kgf Max;  
Withdrawal force: 2.3kgf Max;  
Durability: Insertion/withdrawl: 50 Cycles

| Rev                             | Drawn       | Checked      | Approved      | Date      | SMP TECHNOLOGY, INC.<br>PCI Express Mini Card Connector, 8.00mm Height<br>P/N: B032-5241-10X-Z |
|---------------------------------|-------------|--------------|---------------|-----------|------------------------------------------------------------------------------------------------|
| 0 Issued                        | B.S.        | S.M.         | S.M.          | 3/28/07   |                                                                                                |
| A Added Side by Side PCB Layout | B.S.        | S.M.         | S.M.          | 08/21/13  |                                                                                                |
|                                 |             |              |               |           |                                                                                                |
| SCALE N/A                       |             |              |               |           |                                                                                                |
| TOL. DEC.                       | .X +/- 0.30 | .XX +/- 0.20 | .XXX +/- 0.15 | ANGLE +/- | UNIT: mm                                                                                       |

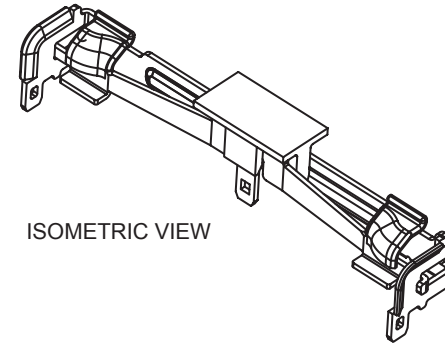


RECOMMENDED P.C. BOARD PATTERN  
(SIDE BY SIDE)

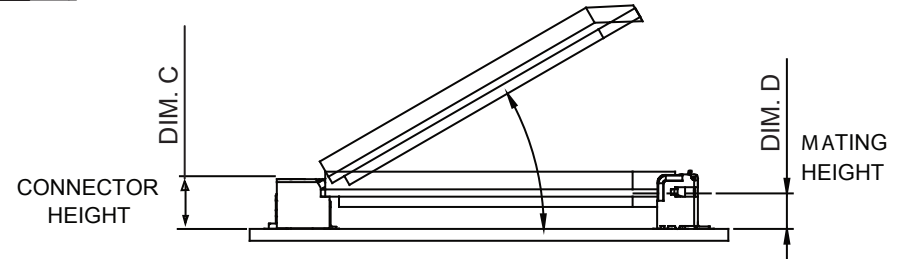
| Rev                  | Drawn       | Checked      | Approved      | Date      | <b>SMP TECHNOLOGY, INC.</b><br><br>PCI Express Mini Card Connector, 8.00mm Height |
|----------------------|-------------|--------------|---------------|-----------|-----------------------------------------------------------------------------------|
| 0                    | B.S.        | S.M.         | S.M.          | 3/28/07   |                                                                                   |
| A                    | B.S.        | S.M.         | S.M.          | 08/21/13  |                                                                                   |
|                      |             |              |               |           |                                                                                   |
| SCALE N/A            |             |              |               |           |                                                                                   |
| TOL. DEC.            | .X +/- 0.30 | .XX +/- 0.20 | .XXX +/- 0.15 | ANGLE +/- | UNIT: mm                                                                          |
| P/N: B032-5241-10X-Z |             |              |               |           | Pg: 2/5                                                                           |



RECOMMENDED PCB LAYOUT



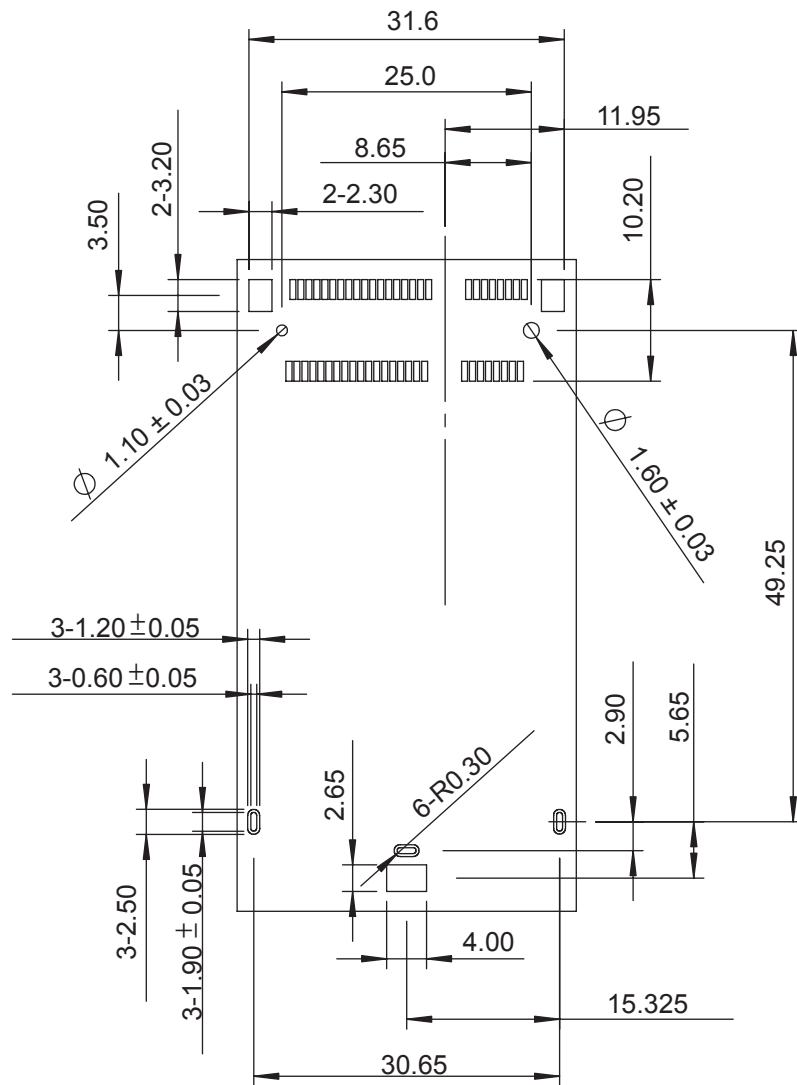
ISOMETRIC VIEW



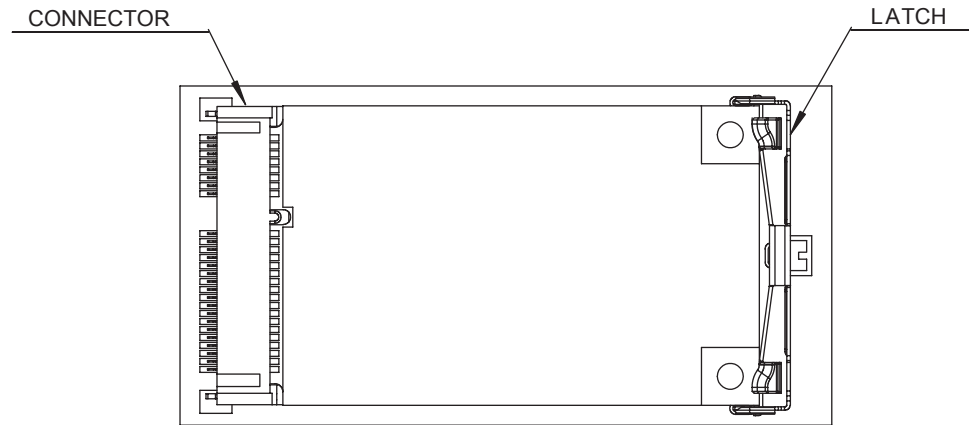
| PART NO.     | DIM. A +0.05/-0.10 | DIM. B +0.20/-0.05 | DIM. C<br>CONN. HT. | DIM D<br>MATING HT. |
|--------------|--------------------|--------------------|---------------------|---------------------|
| LM1-B032-4.0 | 1.60               | 5.15               | 4.00                | 2.11                |
| LM1-B032-5.2 | 2.80               | 6.35               | 5.20                | 3.31                |
| LM1-B032-5.6 | 3.20               | 6.75               | 5.60                | 3.71                |
| LM1-B032-6.0 | 3.60               | 7.15               | 6.00                | 4.11                |
| LM1-B032-6.8 | 4.40               | 7.95               | 6.80                | 4.85                |
| LM1-B032-8.0 | 5.60               | 9.15               | 8.00                | 6.11                |
| LM1-B032-9.0 | 6.60               | 10.15              | 9.00                | 7.11                |
| LM1-B032-9.2 | 6.80               | 10.35              | 9.20                | 7.31                |
| LM1-B032-9.9 | 7.50               | 11.05              | 9.90                | 8.01                |

| Rev                                                                               | Drawn | Checked | Approved | Date     |
|-----------------------------------------------------------------------------------|-------|---------|----------|----------|
| 0                                                                                 | B.S.  | S.M.    | S.M.     | 07/28/12 |
|                                                                                   |       |         |          |          |
|                                                                                   |       |         |          |          |
|                                                                                   |       |         |          |          |
| Scale :N/A<br>TOL. DEC. .X +/- 0.25 .XX +/- 0.15 .XXX +/- 0.10 ANGLE +/- UNIT: mm |       |         |          |          |

|                                                 |  |
|-------------------------------------------------|--|
| <b>SMP TECHNOLOGY, INC.</b>                     |  |
| Latch Mechanism For PCI Express Card Connectors |  |
| P/N: B032-5241-10X-Z                            |  |
| Pg: 3/5                                         |  |

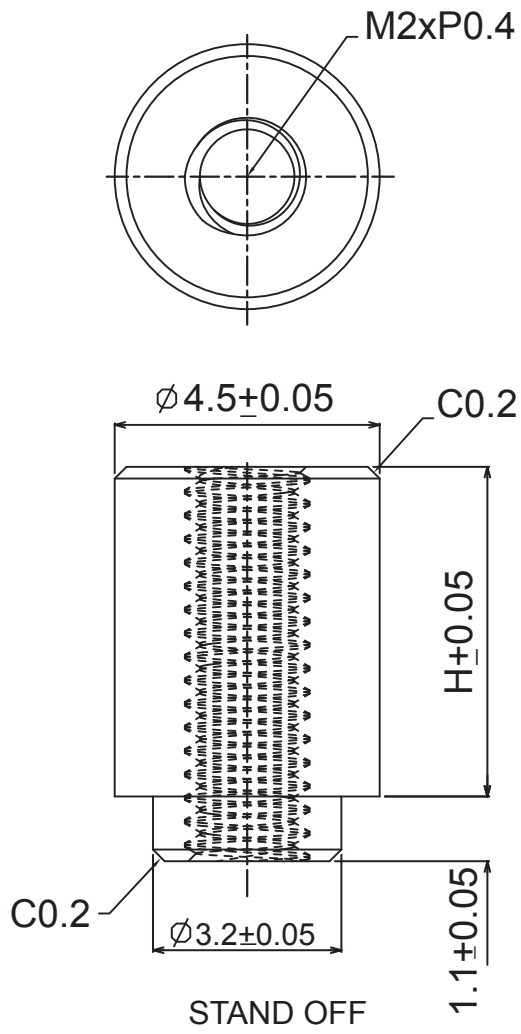


RECOMMENDED PCB LAYOUT FOR USE WITH LATCH MECHANISM



TOP VIEW OF CONNECTOR LATCH MOUNTED ON PCB

| Rev                                                                                              |        | Drawn | Checked | Approved | Date     | <b>SMP TECHNOLOGY, INC.</b><br><br>Latch Mechanism For PCI Express Card Connectors<br><br>P/N: B032-5241-10X-Z |
|--------------------------------------------------------------------------------------------------|--------|-------|---------|----------|----------|----------------------------------------------------------------------------------------------------------------|
| 0                                                                                                | Issued | B.S.  | S.M.    | S.M.     | 07/28/12 |                                                                                                                |
|                                                                                                  |        |       |         |          |          |                                                                                                                |
|                                                                                                  |        |       |         |          |          |                                                                                                                |
| Scale :N/A<br>TOL. DEC.    .X +/- 0.25    .XX +/- 0.15    .XXX +/- 0.10    ANGLE +/-    UNIT: mm |        |       |         |          |          | Pg: 4/5                                                                                                        |

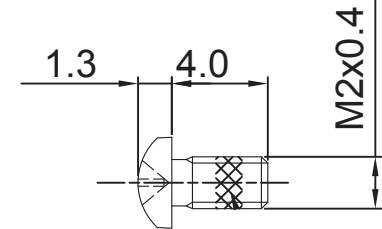
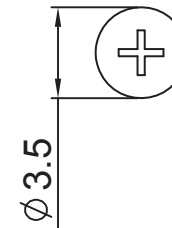


Plating: 100 u" Sn(Min.)

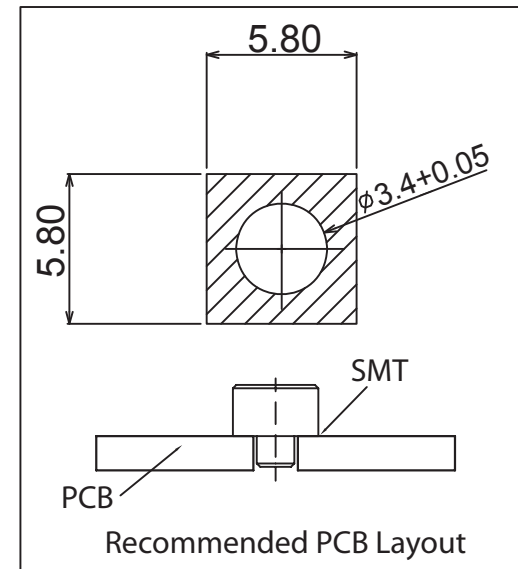
Part Number:  
 HW-B032-4.0N  
 HW-B032-5.2N  
 HW-B032-5.6N  
 HW-B032-6.8N  
 HW-B032-8.0N  
 HW-B032-9.2N  
 HW-B032-9.9N  
 HW-B032-10.6N

"H" ± 0.1  
 1.6  
 2.8  
 3.2  
 4.4  
 5.6  
 6.8  
 7.5  
 8.2

Part Number  
 HW - NYLOK



Material: Low Carbon Steel C1018  
 Plating: Nickel  
 General Tolerance ± 0.3



| Rev                                                                                     |        | Drawn | Checked | Approved | Date    | <b>SMP TECHNOLOGY, INC.</b><br><br>PCI Express Card Hardware / Standoffs |
|-----------------------------------------------------------------------------------------|--------|-------|---------|----------|---------|--------------------------------------------------------------------------|
| 0                                                                                       | Issued | B.S.  | S.M.    | S.M.     | 5/05/10 |                                                                          |
|                                                                                         |        |       |         |          |         |                                                                          |
|                                                                                         |        |       |         |          |         |                                                                          |
|                                                                                         |        |       |         |          |         |                                                                          |
| TOL. DEC.      .X +/- 0.25      .XX +/- 0.15      .XXX +/-      ANGLE +/-      UNIT: mm |        |       |         |          |         | P/N: B032-5241-10X-Z                                                     |
|                                                                                         |        |       |         |          |         | Pg: 5/5                                                                  |