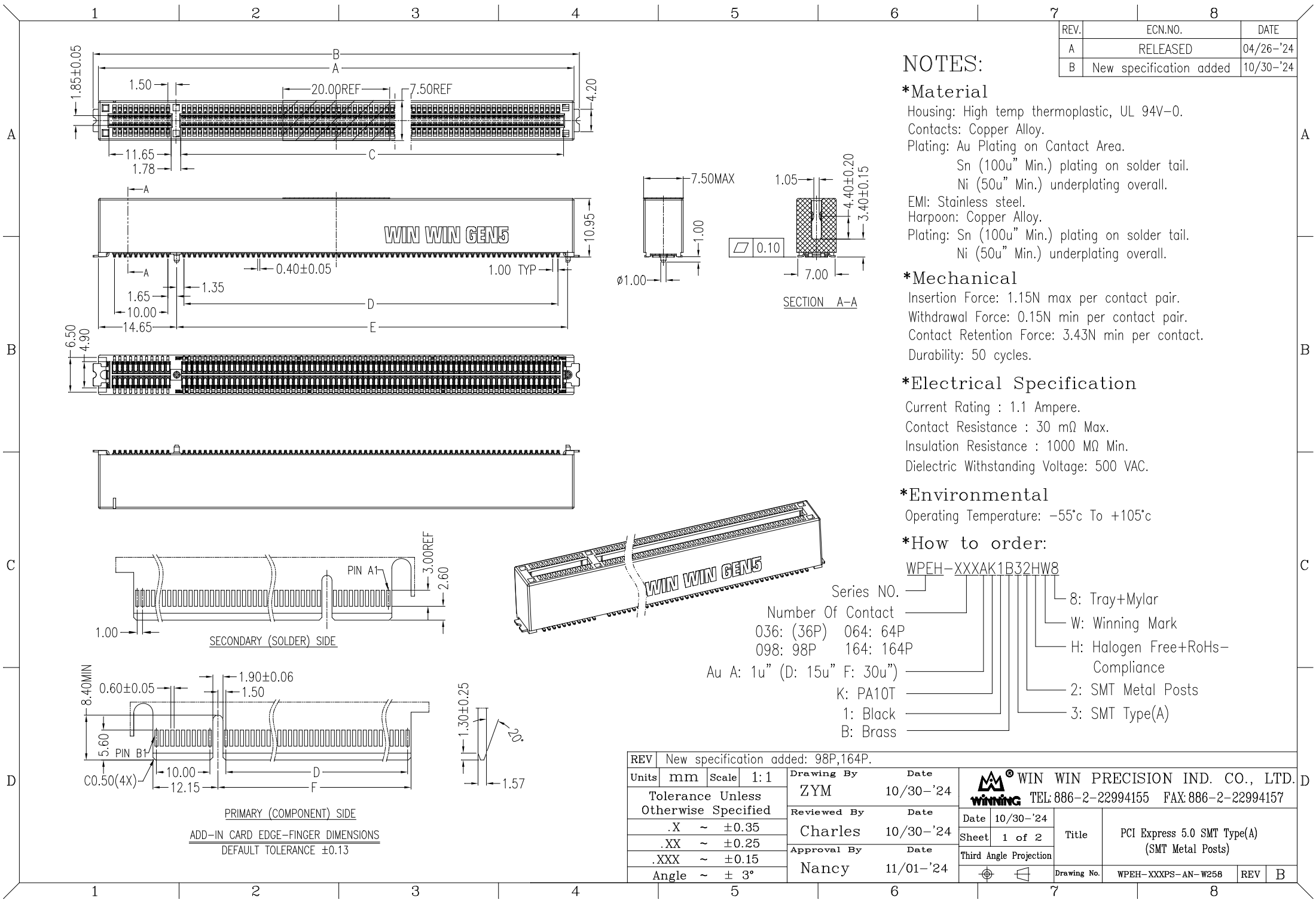




| REV. | ECN.NO.                 | DATE      |
|------|-------------------------|-----------|
| A    | RELEASED                | 04/26-'24 |
| B    | New specification added | 10/30-'24 |

NOTES:

\*Material

Housing: High temp thermoplastic, UL 94V-0.  
Contacts: Copper Alloy.  
Plating: Au Plating on Contact Area.  
Sn (100u" Min.) plating on solder tail.  
Ni (50u" Min.) underplating overall.  
EMI: Stainless steel.  
Harpoon: Copper Alloy.  
Plating: Sn (100u" Min.) plating on solder tail.  
Ni (50u" Min.) underplating overall.

\*Mechanical

Insertion Force: 1.15N max per contact pair.  
Withdrawal Force: 0.15N min per contact pair.  
Contact Retention Force: 3.43N min per contact.  
Durability: 50 cycles.

\*Electrical Specification

Current Rating : 1.1 Ampere.  
Contact Resistance : 30 mΩ Max.  
Insulation Resistance : 1000 MΩ Min.  
Dielectric Withstanding Voltage: 500 VAC.

\*Environmental

Operating Temperature: -55°C To +105°C

\*How to order:

WPEH-XXXAK1B32HW8

Series NO. \_\_\_\_\_  
Number Of Contact \_\_\_\_\_  
036: (36P) 064: 64P  
098: 98P 164: 164P  
Au A: 1u" (D: 15u" F: 30u") \_\_\_\_\_  
K: PA10T \_\_\_\_\_  
1: Black \_\_\_\_\_  
B: Brass \_\_\_\_\_

8: Tray+Mylar  
W: Winning Mark  
H: Halogen Free+RoHs-Compliance  
2: SMT Metal Posts  
3: SMT Type(A)

|                                         |                                    |       |     |             |  |           |  |                                         |           |                     |     |                                                  |  |
|-----------------------------------------|------------------------------------|-------|-----|-------------|--|-----------|--|-----------------------------------------|-----------|---------------------|-----|--------------------------------------------------|--|
| REV                                     | New specification added: 98P,164P. |       |     |             |  |           |  |                                         |           |                     |     |                                                  |  |
| Units                                   | mm                                 | Scale | 1:1 | Drawing By  |  | Date      |  | WIN WIN PRECISION IND. CO., LTD.        |           |                     |     |                                                  |  |
| Tolerance Unless<br>Otherwise Specified |                                    |       |     | ZYM         |  | 10/30-'24 |  | TEL: 886-2-22994155 FAX: 886-2-22994157 |           |                     |     |                                                  |  |
|                                         |                                    |       |     | Reviewed By |  | Date      |  | Date                                    | 10/30-'24 | Title               |     | PCI Express 5.0 SMT Type(A)<br>(SMT Metal Posts) |  |
|                                         |                                    |       |     | Charles     |  | 10/30-'24 |  | Sheet                                   | 1 of 2    |                     |     |                                                  |  |
|                                         |                                    |       |     | Approval By |  | Date      |  | Third Angle Projection                  |           |                     |     |                                                  |  |
|                                         |                                    |       |     | Nancy       |  | 11/01-'24 |  | Drawing No.                             |           | WPEH- XXXPS-AN-W258 | REV | B                                                |  |

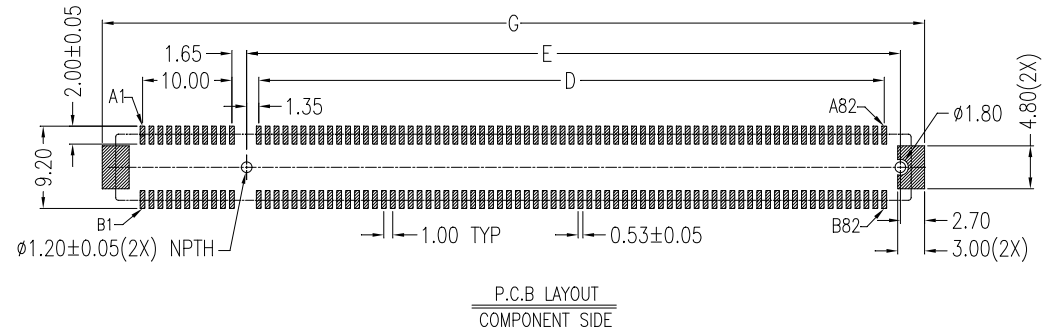
# PCI Express Connectors Pinout

Shorting

| Side A | Pin # | Side B |
|--------|-------|--------|
| Signal | 1     | Power  |
| Power  | 2     | Power  |
| Power  | 3     | Power  |
| Ground | 4     | Ground |
| Signal | 5     | Signal |
| Signal | 6     | Signal |
| Signal | 7     | Ground |
| Signal | 8     | Power  |
| Power  | 9     | Signal |
| Power  | 10    | Power  |
| Signal | 11    | Signal |
| Ground | 12    | Signal |
| Signal | 13    | Ground |
| Signal | 14    | Signal |
| Ground | 15    | Signal |
| Signal | 16    | Ground |
| Signal | 17    | Signal |
| Ground | 18    | Ground |
| Signal | 19    | Signal |
| Ground | 20    | Signal |
| Signal | 21    | Ground |
| Signal | 22    | Ground |
| Ground | 23    | Signal |
| Ground | 24    | Signal |
| Signal | 25    | Ground |
| Signal | 26    | Ground |
| Ground | 27    | Signal |
| Ground | 28    | Signal |
| Signal | 29    | Ground |
| Signal | 30    | Signal |
| Ground | 31    | Signal |
| Signal | 32    | Ground |
| Signal | 33    | Signal |
| Ground | 34    | Signal |
| Signal | 35    | Ground |
| Signal | 36    | Ground |
| Ground | 37    | Signal |
| Ground | 38    | Signal |
| Signal | 39    | Ground |
| Signal | 40    | Ground |
| Ground | 41    | Signal |

| Side A | Pin # | Side B |
|--------|-------|--------|
| Ground | 42    | Signal |
| Signal | 43    | Ground |
| Signal | 44    | Ground |
| Ground | 45    | Signal |
| Ground | 46    | Signal |
| Signal | 47    | Ground |
| Signal | 48    | Signal |
| Ground | 49    | Ground |
| Signal | 50    | Signal |
| Ground | 51    | Signal |
| Signal | 52    | Ground |
| Signal | 53    | Ground |
| Ground | 54    | Signal |
| Ground | 55    | Signal |
| Signal | 56    | Ground |
| Signal | 57    | Ground |
| Ground | 58    | Signal |
| Ground | 59    | Signal |
| Signal | 60    | Ground |
| Signal | 61    | Ground |
| Ground | 62    | Signal |
| Ground | 63    | Signal |
| Signal | 64    | Ground |
| Signal | 65    | Ground |
| Ground | 66    | Signal |
| Ground | 67    | Signal |
| Signal | 68    | Ground |
| Signal | 69    | Ground |
| Ground | 70    | Signal |
| Ground | 71    | Signal |
| Signal | 72    | Ground |
| Signal | 73    | Ground |
| Ground | 74    | Signal |
| Ground | 75    | Signal |
| Signal | 76    | Ground |
| Signal | 77    | Ground |
| Ground | 78    | Signal |
| Ground | 79    | Signal |
| Signal | 80    | Ground |
| Signal | 81    | Signal |
| Ground | 82    | Signal |

Shorting



## NOTES (Ground Pin Position):

- 36P: A12, A15, A18,  
B13, B16, B18,
- 64P: A12, A15, A18, A20, A23, A24, A27, A28, A31,  
B13, B16, B18, B21, B22, B25, B26, B29, B32,
- 98P: A12, A15, A18, A20, A23, A24, A27, A28, A31, A34, A37, A38, A41, A42, A45, A46, A49,  
B13, B16, B18, B21, B22, B25, B26, B29, B32, B35, B36, B39, B40, B43, B44, B47, B49,
- 164P: A12, A15, A18, A20, A23, A24, A27, A28, A31, A34, A37, A38, A41, A42, A45, A46, A49,  
A51, A54, A55, A58, A59, A62, A63, A66, A67, A70, A71, A74, A75, A78, A79, A82,  
B13, B16, B18, B21, B22, B25, B26, B29, B32, B35, B36, B39, B40, B43, B44, B47, B49,  
B52, B53, B56, B57, B60, B61, B64, B65, B68, B69, B72, B73, B76, B77, B80.

| #POS<br>RFE | DIM'A' | DIM'B' | DIM'C' | DIM'D' | DIM'E' | DIM'F' | DIM'G' |
|-------------|--------|--------|--------|--------|--------|--------|--------|
| (36P)       | 25.00  | 27.00  | 7.65   | 6.00   | 9.15   | 8.15   | 28.00  |
| 64P         | 39.00  | 41.00  | 21.65  | 20.00  | 23.15  | 22.15  | 42.00  |
| 98P         | 56.00  | 58.00  | 38.65  | 37.00  | 40.15  | 39.15  | 59.00  |
| 164P        | 89.00  | 91.00  | 71.65  | 70.00  | 73.15  | 72.15  | 92.00  |

|                                      |                                     |       |     |                        |           |                                                                                    |                    |
|--------------------------------------|-------------------------------------|-------|-----|------------------------|-----------|------------------------------------------------------------------------------------|--------------------|
| REV                                  | New specification added: 98P, 164P. |       |     |                        |           |                                                                                    |                    |
| Units                                | mm                                  | Scale | 1:1 | Drawing By             | Date      | <b>WIN WIN PRECISION IND. CO., LTD.</b><br>TEL: 886-2-22994155 FAX: 886-2-22994157 |                    |
| Tolerance Unless Otherwise Specified |                                     |       |     | ZYM                    | 10/30-'24 |                                                                                    |                    |
| .X ~ ±0.35                           |                                     |       |     | Reviewed By            | Date      | Date                                                                               | 10/30-'24          |
| .XX ~ ±0.25                          |                                     |       |     | Charles                | 10/30-'24 | Sheet                                                                              | 2 of 2             |
| .XXX ~ ±0.15                         |                                     |       |     | Approval By            | Date      | Title<br>PCI Express 5.0 SMT Type(A)<br>(SMT Metal Posts)                          |                    |
| Angle ~ ± 3°                         |                                     |       |     | Nancy                  | 11/01-'24 |                                                                                    |                    |
|                                      |                                     |       |     | Third Angle Projection |           | Drawing No.                                                                        | WPEH-XXXPS-AN-W258 |
|                                      |                                     |       |     |                        |           | REV                                                                                | B                  |