

REV.	ECN.NO.	DATE
A	RELEASED	05/19-'22
E	Modify Harpoon structure	01/04-'24
F	Modify PCB Dimension	02/26-'24

**NOTES: 1:**

**\*Material**

Housing: High temp thermoplastic, UL 94V-0.  
 Latch: High temp thermoplastic, UL 94V-0.  
 Cap: 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 Overall;  
           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**

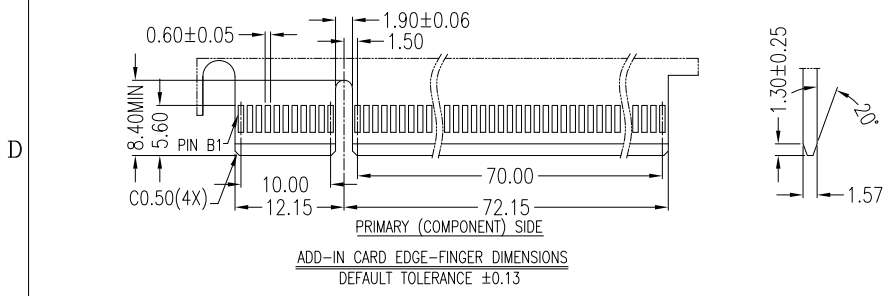
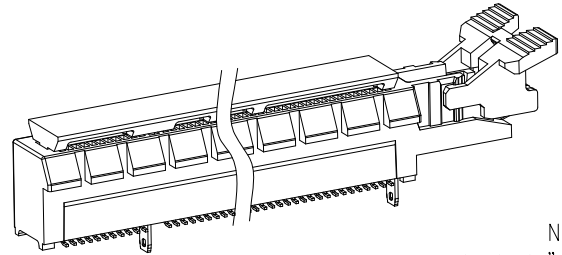
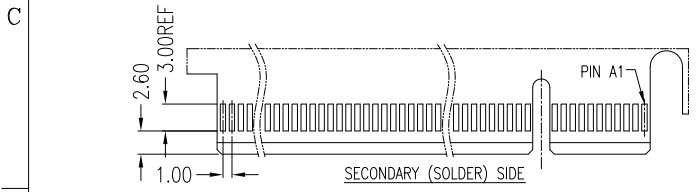
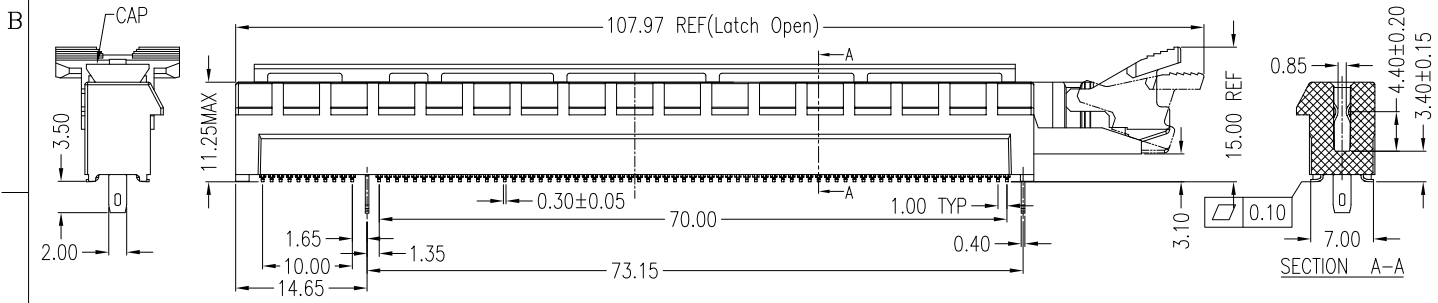
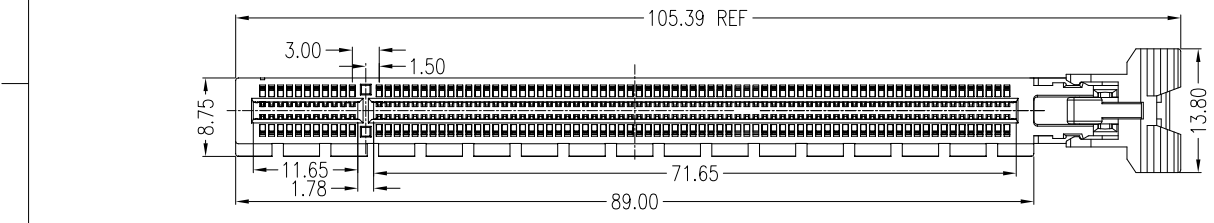
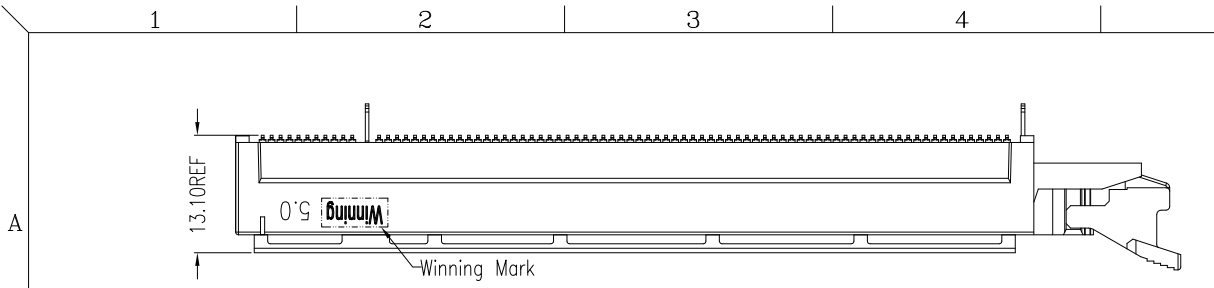
Current Rating: 1.1 Ampere.  
 Contact Resistance: 30 mΩ Max.  
 Insulation Resistance: 1000 MΩ Min.  
 Dielectric Withstanding Voltage: 500 VAC.

**\*Environmental**

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

**\*How to order:**

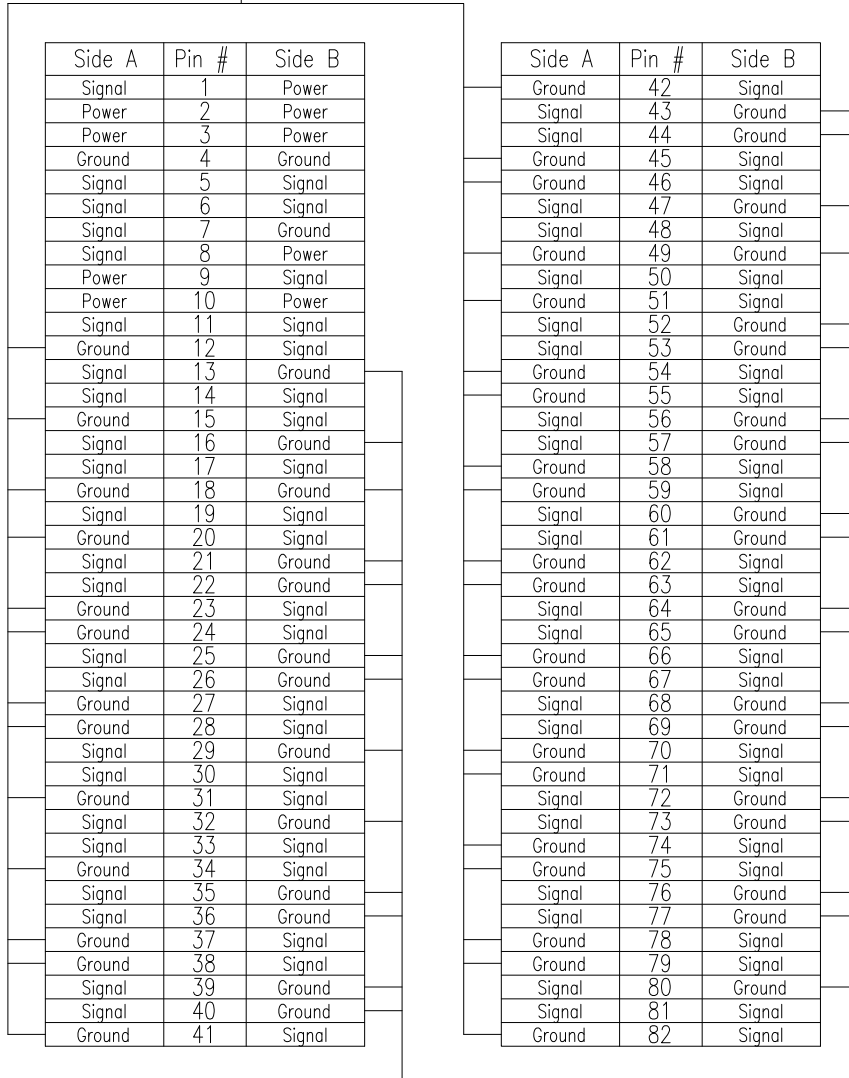
WPDH-164AK1C33HW7  
 Series NO. \_\_\_\_\_  
 Number Of Contact \_\_\_\_\_  
 Au A: 1u" D: 15u" (F: 30u")  
 K: PA10T  
 1: Black  
 C: Copper Alloy  
 \_\_\_\_\_ 7: Tray+Cap  
 \_\_\_\_\_ W: Winning Mark  
 \_\_\_\_\_ H: Halogen Free+RoHS-Compliance  
 \_\_\_\_\_ 3: Metal Posts  
 \_\_\_\_\_ 3: SMT Type



REV	Modify PCB Dimension			Drawing By	Date	WIN WIN PRECISION IND. CO., LTD.		
	Units	mm	Scale	LZX	02/26-'24	TEL: 886-2-22994155 FAX: 886-2-22994157		
	Tolerance Unless Otherwise Specified			Reviewed By	Date	Date	02/26-'24	Title PCI Express 5.0 SMT Type (Double Push Type)
	.X	~	±0.35	Charles	02/27-'24	Sheet	1 of 2	
	.XX	~	±0.25	Approval By	Date	Third Angle Projection		
	.XXX	~	±0.15	Nancy	03/04-'24	Drawing No.	WPDH-164PS-AN-W244	
	Angle	~	± 3°			REV	F	

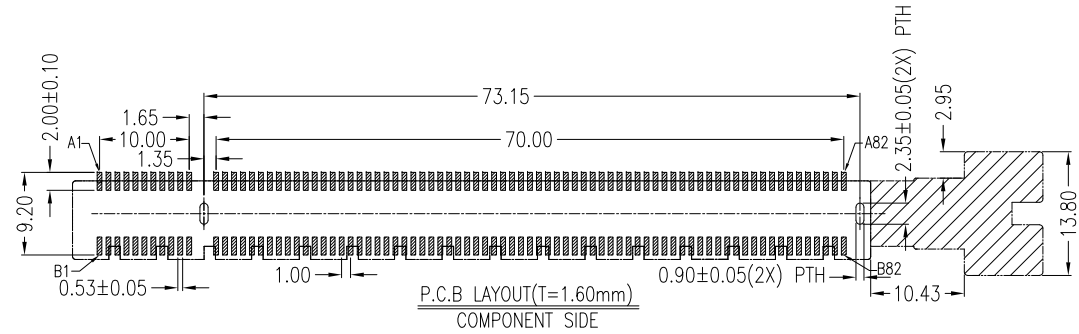
PCI Express Connectors Pinout

Shorting



Shorting

REV.	ECN.NO.	DATE
A	RELEASED	05/19-'22
E	Modify Harpoon structure	01/04-'24
F	Modify PCB Dimension	02/26-'24



NOTES 2(Ground Pin Position):

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.

REV	Modify PCB Dimension			Drawing By	Date	WIN WIN PRECISION IND. CO., LTD.			
Units	mm	Scale	1:1	LZX	02/26-'24	TEL: 886-2-22994155 FAX: 886-2-22994157			
Tolerance Unless Otherwise Specified				Reviewed By	Date	Date	02/26-'24	Title PCI Express 5.0 SMT Type (Double Push Type)	
.X ~ ±0.35				Charles	02/27-'24	Sheet	2 of 2		
.XX ~ ±0.25				Approval By	Date	Third Angle Projection			
.XXX ~ ±0.15				Nancy	03/04-'24	Drawing No. WPDH-164PS-AN-W244			
Angle ~ ± 3°								REV	F