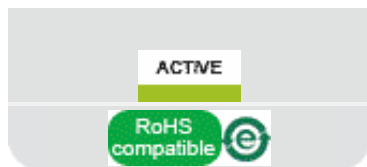
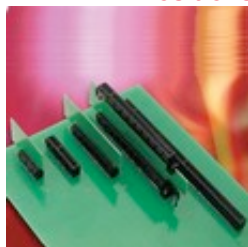


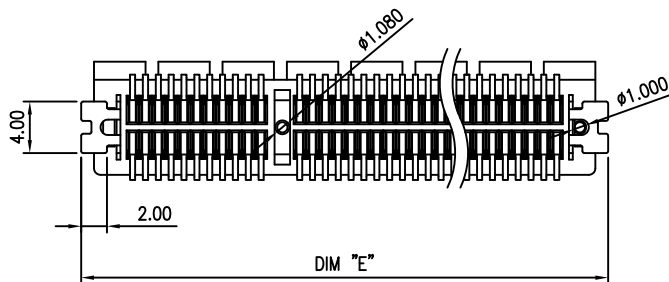
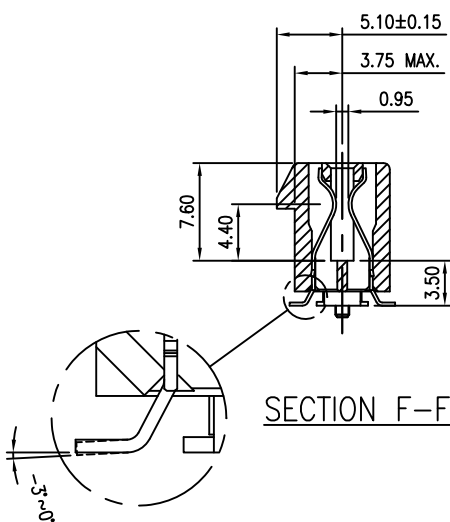
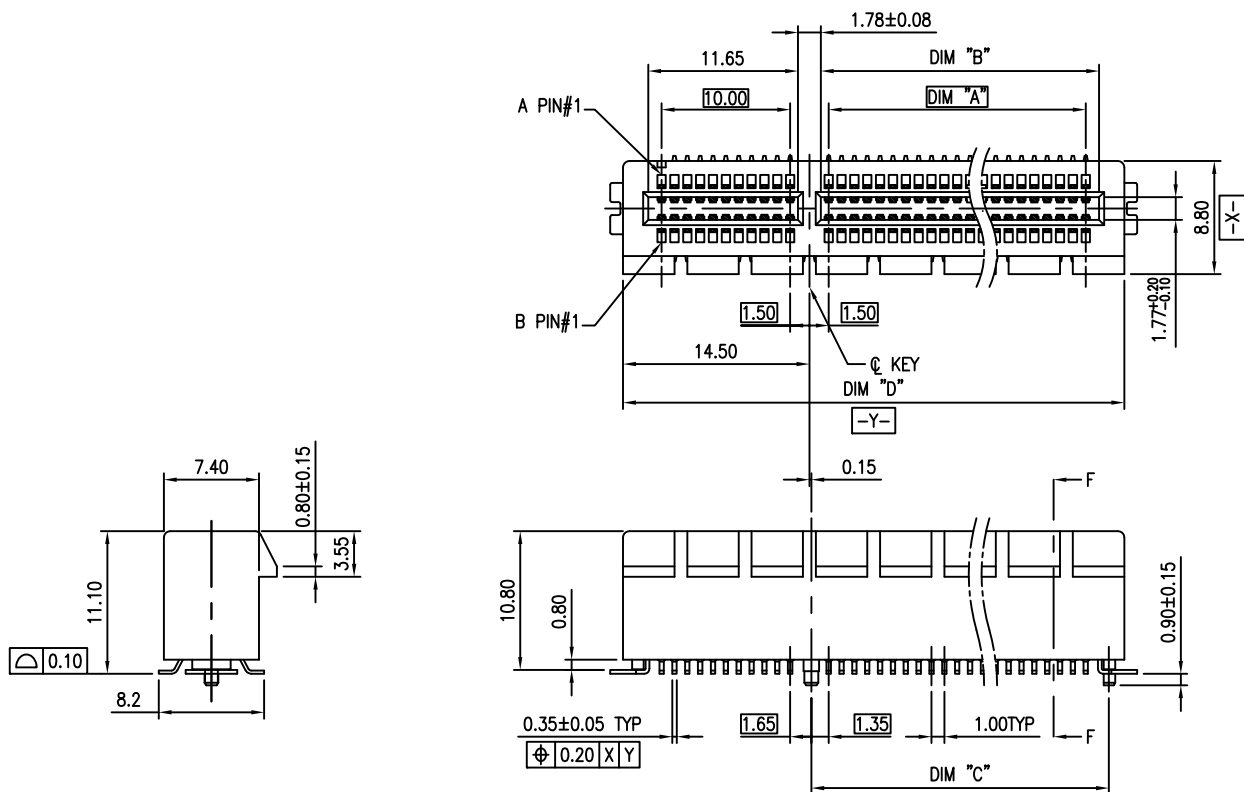
**10061913-103TLF - PCI  
Express : Surface Mount  
Card Edge Connector, 164  
Positions**



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## Specifications

General	
<b>Component Type</b>	Surface Mount Connector
<b>Number of contacts (Total)</b>	164 (x16)
<b>Orientation (Features)</b>	Plastic Post
Dimensional	
<b>Thickness (Board)</b>	1.56 mm (0.062 in.)
<b>PCB Thickness (Add-In )</b>	1.57 mm (0.062 in.)
Electrical	
<b>Current rating</b>	1.1 amps per contact
<b>Resistance (Contact)</b>	30 milli ohms max. (Initial) with 10 milli ohms max. change after Exposure Testing
<b>Resistance (Insulation)</b>	1000 M-ohms
<b>Voltage rating</b>	300V AC
Mechanical	
<b>Durability (Mating cycles)</b>	50
<b>Withdrawal Force</b>	0.15N minimum per Contact pair
<b>Mating force</b>	1.15N maximum per Contact pair
Mounting	
<b>Solder process</b>	Reflow Solder
Physical	
<b>Color (Housing)</b>	Black
<b>Material (Contact)</b>	Copper Alloy
<b>Material (Housing)</b>	High - Temperature Nylon, Glass - Filled, UL94V-0
<b>Plating (Contact area)</b>	0.76 µm (30 µin.) Gold over 1.27 µm (50 µin.) Nickel
<b>Plating (Solder area)</b>	2.54 µm (100 µin.) Tin over 1.27 µm (50 µin.) Nickel
<b>Temperature (Range)</b>	-55°C to +85°C
Approvals / Certifications	
<b>Approvals / Certifications</b>	UL Approved
Other Features	
<b>Packaging (Type)</b>	Tray without Cap

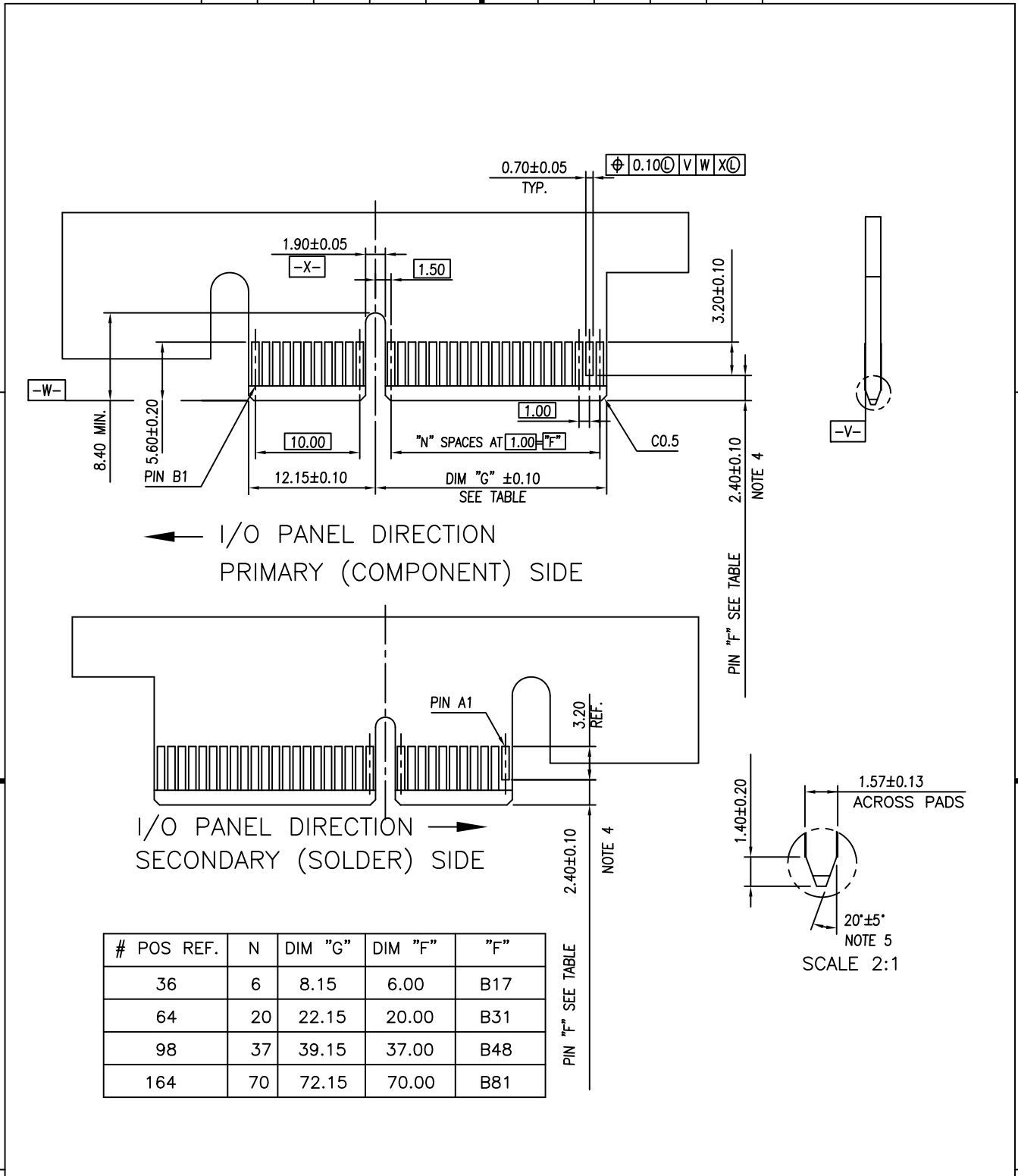


HOLD DOWN TYPE

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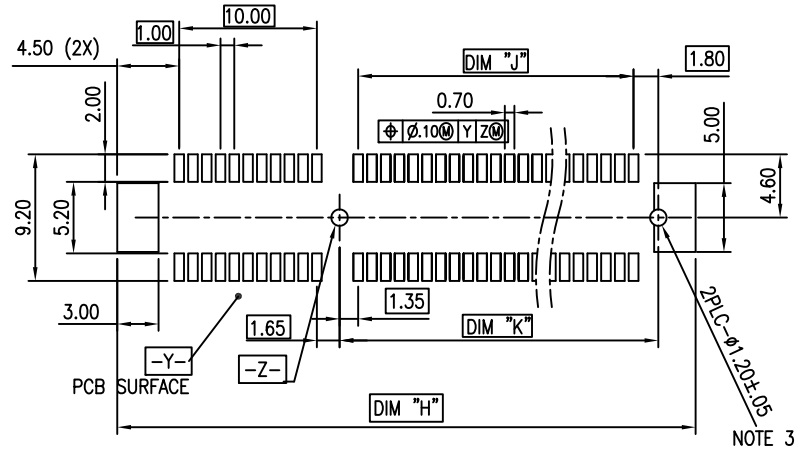
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mat'l. code				surface 58/ISO 1302		tolerance ISO 406 ISO		projection		product family				
-				ISO 1302		ISO 406 ISO		101		PCI_EXPRESS				
ltr	ecn no	dr	date	tolerances unless otherwise specified				MM		title				
B	T07-0005	RC	02/06/'07	angles	linear		.X±.3		PCI_EXPRESS_CARD_EDGE ASSEMBLY(SMT)					
C	T07-1083	RC	05/25/'07	0°±2'		.XX±.20		scale 1		dwg no		sheet 1 of 6	size	
D	T07-1120	RC	07/31/'07	MAGGIE_WU		06'/6/21		FCI		10061913		A4		
E	DG08-0111	RC	05/08/'08	RICHARD_CHIU		06'/6/21				type		CUSTOMER Drawing		
F	T08-1097	RC	06/03/'08	PAUL_WANG		06'/6/21								
G	T08-1188	JH	10/23/08	JOSEPH_HSIA		06'/6/21								
H	T10-0007	JH	1/30/10											
sheet index	revision sheet	H	H	H	H	H	H							
		1	2	3	4	5	6							



ADD-IN CARD EDGE-FINGER DIMENSIONS

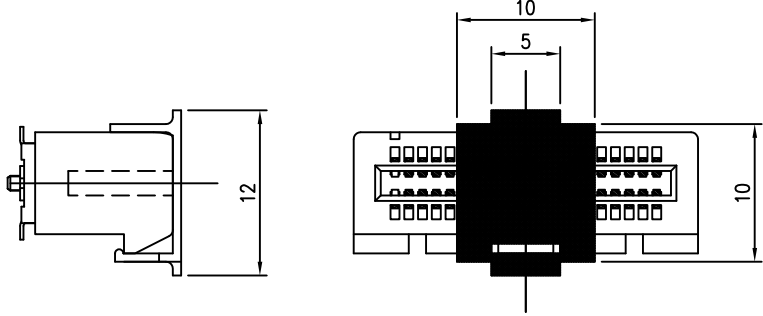
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H - - -				angles		linear		MM		PCI_EXPRESS_CARD_EDGE ASSEMBLY(SMT)			
				0°±2°		.X±.2 .XX±.13 XXX±.05		scale 2		dwg no sheet 2 of 6 size		10061913 A4	
				dr MAGGIE_WU 06'/6/21		enrg RICHARD_CHIU 06'/6/21		FCI		type		CUSTOMER Drawing	
				chr PAUL_WANG 06'/6/21		app JOSEPH_HSIA 06'/6/21							
sheet index		revision sheet											



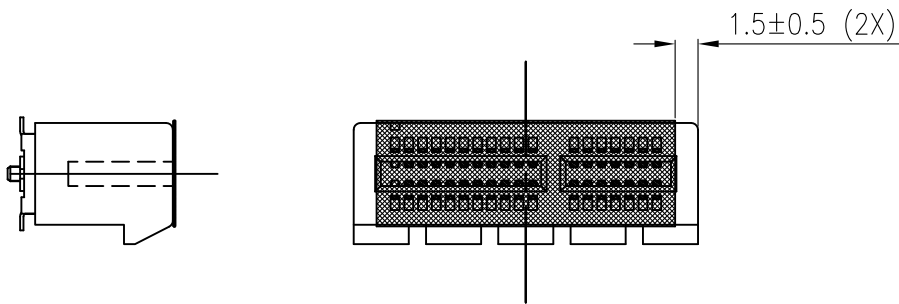
RECOMMENDED PCB LAYOUT, PAD TYPE

DIMENSIONS								
POSITION	A	B $\pm 0.15$ $-0.05$	C $\pm 0.20$	D $\pm 0.23$	E $\pm 0.20$	H $\pm 0.10$	J	K $\pm 0.10$
36	6.00	7.65	9.15	25.00	27.00	28.00	6.00	9.15
64	20.00	21.65	23.15	39.00	41.00	42.00	20.00	23.15
98	37.00	38.65	40.15	56.00	58.00	59.00	37.00	40.15
164	70.00	71.65	73.15	89.00	91.00	92.00	70.00	73.15

POSTION OF CAP



POSTION OF MYLAR



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mat'l. code				surface 58/ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection		product family PCI_EXPRESS			
ltr	ecn no	dr	date	tolerances unless otherwise specified				MM		title PCI_EXPRESS_CARD_EDGE ASSEMBLY(SMT)			
H	-	-	-	angles	linear	.X±.2 .XX±.13 XXX±.05		scale 2		dwg no		sheet 3 of 6	size
				dr	MAGGIE_WU	06'/6/21	FCI		10061913		A4		
				engr	RICHARD_CHIU	06'/6/21							
				chr	PAUL_WANG	06'/6/21							
				app	JOSEPH_HSIA	06'/6/21							
sheet index		revision sheet								type		CUSTOMER Drawing	

NOTES:

1.MATERIAL:

HOUSING: NYLON, GLASS FILLED UL94V-0 RATE, SUITABLE FOR I.R SOLDERING.

TERMINAL: COPPER ALLOY

PLATING: 50u" NICKEL UNDERPLATE ALL OVER CONTACT AREA PLATING - SEE PRODUCT NUMBER CODE SOLDER TAIL: TIN 100u" OVER 50u" NICKEL

METAL PADS: COPPER ALLOY FINISH: 100u" TIN OVER 50u" NICKEL

2.PRODUCT SPECIFICATION: GS-12-390

③THE HORIZONTAL AXIS FOR THE PAD PATTERN IS ESTABLISHED BY A LINE THROUGH THE CENTER OF THE TWO Ø1.0 HOLES. THE VERTICAL AXIS IS 90° TO THE HORIZONTAL AXIS, THROUGH THE CENTER OF DATUM [Z-]

④NO TIE BAR PERMITTED FROM CARD EDGE TO LEADING EDGE OF PAD FOR PINS A1.

⑤CHAMFER EDGES MUST BE FREE OF CUTTING BURRS.

7.RoHS COMPATIBLE PRODUCT SPECIFICATIONS

a - PLATING:

- "LF" MEANS THE PRODUCT IS LEAD-FREE, 2um MINIMUM MATTE TIN OVER 1.27um MINIMUM NICKEL UNDERPLATE.

b - MANUFACTURING PROCESS COMPATIBILITY

- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C±5°C PEAK TEMPERATURE FOR 5 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

PRODUCT NUMBER CODE

10061913 -X X X X L F

HOUSING COLOR OPTIONS

0-WHITE 1-BLACK

LEAD FREE

PACKAGING OPTIONS

- T-TRAY PACKAGING WITHOUT CAP R-TAPE & REEL PACKING WITHOUT CAP OR MYLAR (FOR 36P & 64P OPTION ONLY) P-TAPE & REEL PACKING WITH CAP (FOR 36P & 64P OPTION ONLY) C-TRAY PACKAGING WITH CAP M-TAPE & REEL PACKING WITH MYLAR (FOR 36P & 64P OPTION ONLY) N-TRAY PACKAGING WITH MAYLAR Y-HARD TRAY (FOR 164P ONLY) Z-HARD TRAY PACKAGING WITH MAYLAR (FOR 164P ONLY)

TERMINAL PLATING OPTIONS

- 0-50u" Ni UNDERPLATE 30u" Au CONTACT AREA 100u" TIN TAIL AREA COMPATIBLE RoHS 1-50u" Ni UNDERPLATE 15u" Au CONTACT AREA 100u" TIN TAIL AREA COMPATIBLE RoHS 2-50u" Ni UNDERPLATE GOLD FLASH CONTACT AREA 100u" TIN TAIL AREA COMPATIBLE RoHS

POS OPTIONS

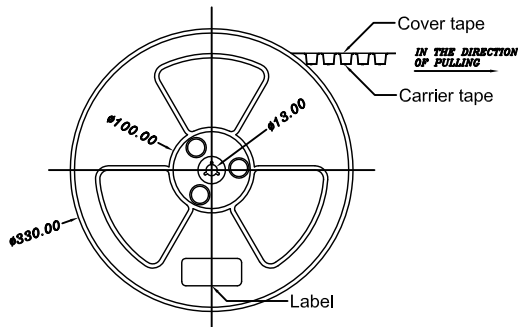
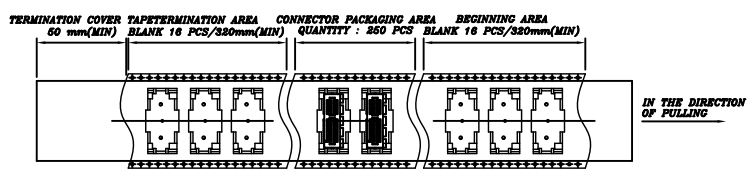
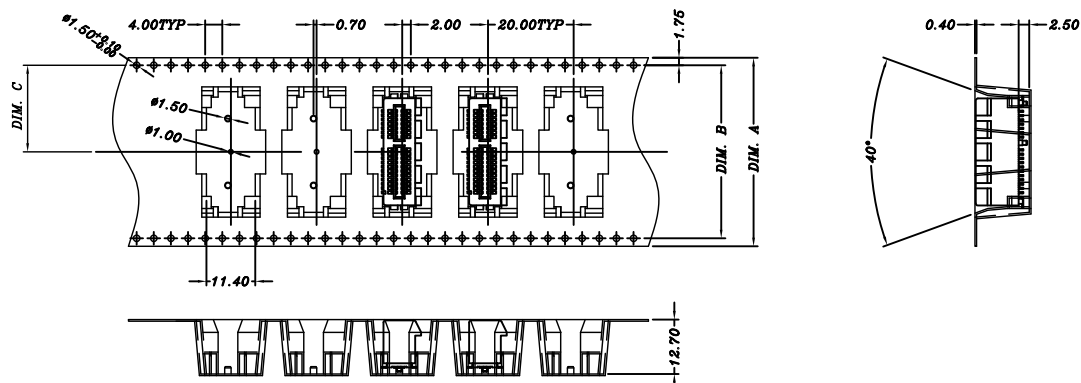
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Table with columns: mat'l. code, surface, tolerance, projection, product family, title, revision, date, tolerances, angles, linear, .X±.2, .XX±.13, XXX±.05, scale, 2, dr, MAGGIE\_WU, 06'/6/21, engr, RICHARD\_CHIU, 06'/6/21, chr, PAUL\_WANG, 06'/6/21, app, JOSEPH\_HSIA, 06'/6/21, sheet index, revision sheet, type, CUSTOMER Drawing, size, A4



TAPE AND REEL  
PACKING PRESENTED  
WITH 36PINS

DIMENSIONS					
POSITIONS	A	B	C	D REF.	E REF.
36	44.00	40.40	20.20	44.5	50.5
64	56.00	52.60	26.30	56.4	60.4

mat'l. code				surface 58/ISO 1302		tolerance ISO 406 ISO 1101		projection		product family PCI_EXPRESS			
ltr	ecn no	dr	date	tolerances unless otherwise specified				MM		title PCI_EXPRESS_CARD_EDGE ASSEMBLY(SMT)			
H	-	-	-	angles	linear	.X±.3		scale 1		dwg no		sheet 5 of 6	size
				0°±2°		.XX±.20		FCI		10061913		A4	
				dr	MAGGIE_WU	06'/6/21				type		CUSTOMER Drawing	
				enr	RICHARD_CHIU	06'/6/21							
				chr	PAUL_WANG	06'/6/21							
				app	JOSEPH_HSIA	06'/6/21							
sheet index	revision sheet												



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1 TAPE & REEL PACKING FOR PCI EXPRESS SMT TYPE 36P.

2. Material :

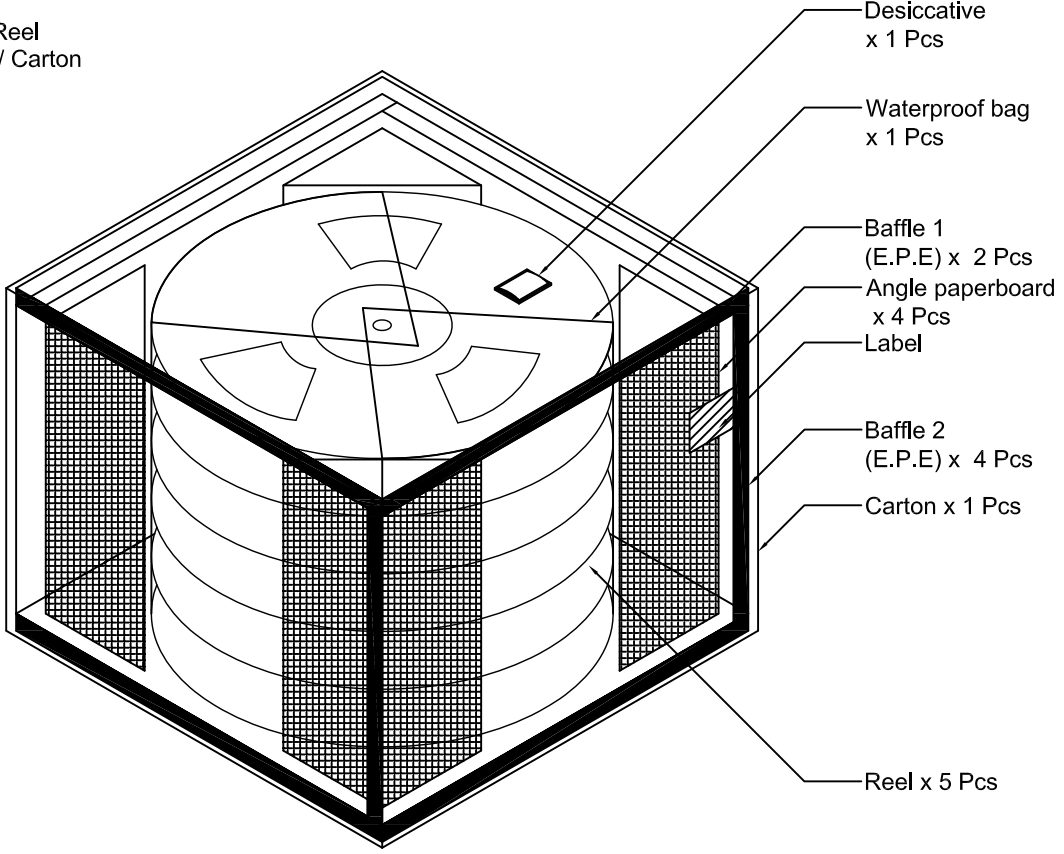
- 2.1 Reel :
  - 2.1.1 Plastic hub : High Impact Polystyrene
  - 2.1.2 Cover tape : PE
  - 2.1.3 Carrier tape : ABS
- 2.2 Waterproof bag : PE
- 2.3 Desiccative : Silica Gel
- 2.4 Carton : Corrugated paper
- 2.5 Baffle : E.P.E
- 2.6 Angle paperboard : Corrugated paper

3. Dimension :

- 3.1 Reel :
  - 3.1.1 Plastic hub :  $\phi 330 \times T50.5$  mm
  - 3.1.2 Cover tape :  $5690(L) \times 37.4(W)$  mm
  - 3.1.3 Carrier tape :  $5640(L) \times 44(W)$ mm
- 3.2 Waterproof bag :  $600(H) \times 465(W) \times 0.06(T)$  mm
- 3.3 Desiccative : 25 gram / Package
- 3.4 Carton :  $380(L) \times 380(W) \times 300(H)$  mm
- 3.5 Baffle (1):  $370(L) \times 370(W) \times 15(H)$  mm
- 3.6 Baffle (2):  $355(L) \times 252(W) \times 15(H)$  mm
- 3.7 Angle paperboard :  $252(H)$

4. Quantity :

- 4.1 250 Pcs / Reel
- 4.2 1,250 Pcs / Carton



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mat'l. code				surface 58/ISO 1302 <input checked="" type="checkbox"/>		tolerance ISO 406 ISO 1101		projection		product family PCI_EXPRESS		
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H	-	-	-					scale 1		dwg no 10061913		sheet 6 of 6
				dr	MAGGIE_WU	06'/6/21			size A4		type CUSTOMER Drawing	
				enr	RICHARD_CHIU	06'/6/21						
				chr	PAUL_WANG	06'/6/21						
				app	JOSEPH_HSIA	06'/6/21						
sheet index		revision sheet										