

PRODUCT PARTNUMBER
10165968-1XXXXXXLF

PARTNO &
DATECODE

#A1 IDENTIFIER

#B2

SEE DETAIL B

HOLDDOWN
CLIP

DETAIL B
SCALE 8:1

SECTION E-E
SCALE 8:1

DIM "A"

DIM "B"

DIM "D"

DIM "C"

DIM "E"

TOLERANCES UNLESS
OTHERWISE SPECIFIED

spec ref	-	dr	Cheong, Matthe	2022/03/11
tolerance std	ISO 406 ISO 1101	eng	Cheong, Matthe	2024/05/13
		chr	-	-
		appr	Koon-Poh Tay	2024/05/13
surface	linear	Amphenol FCi		
ISO 1302	angular	0°	±2°	

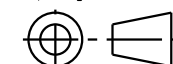
Amphenol
FCi

www.fci.com

PCI Express Gen 6
SMT Type

cat. no.

projection



MM



size

A3

scale

3:1

ecn no

rel level Released

dwg no

10165968

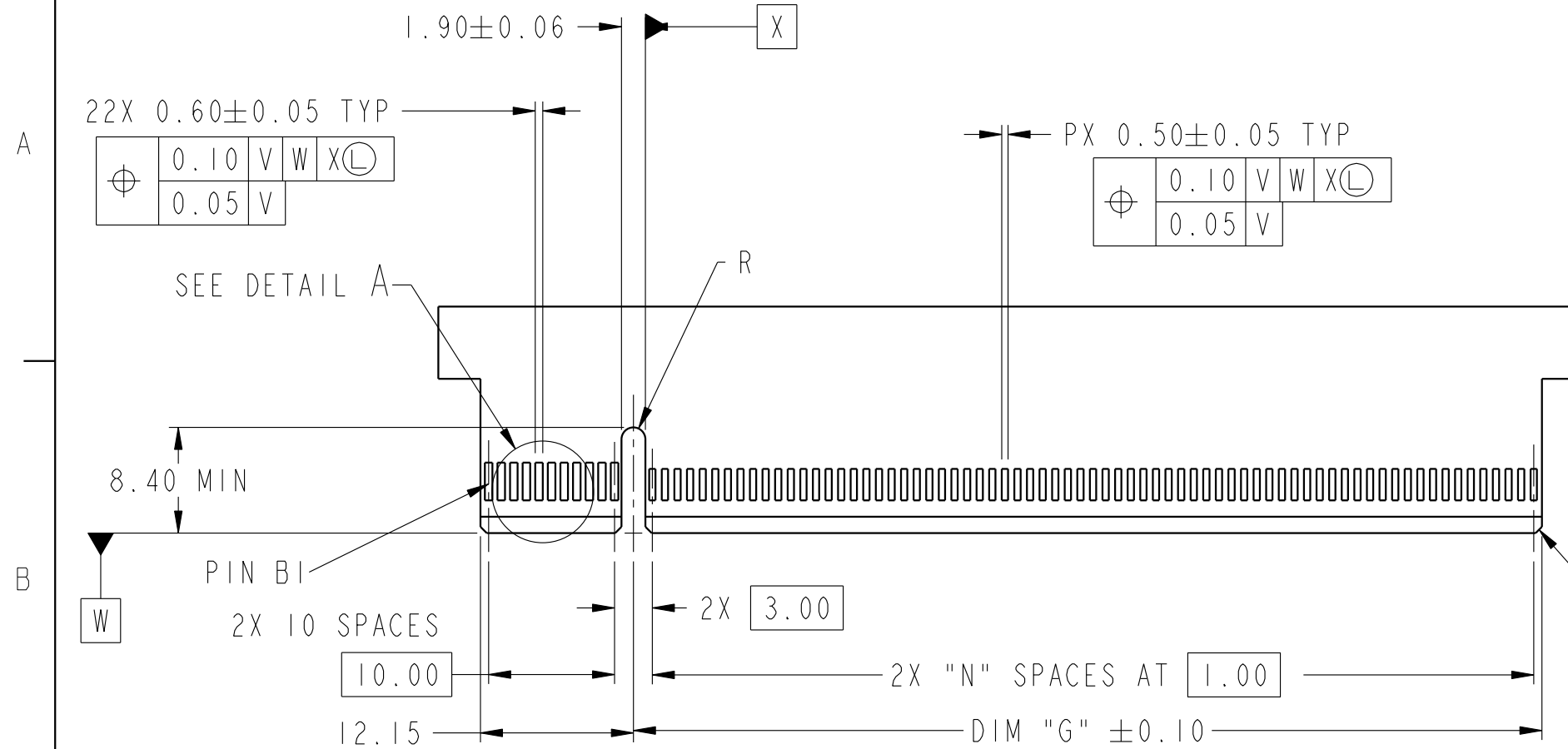
rev

A

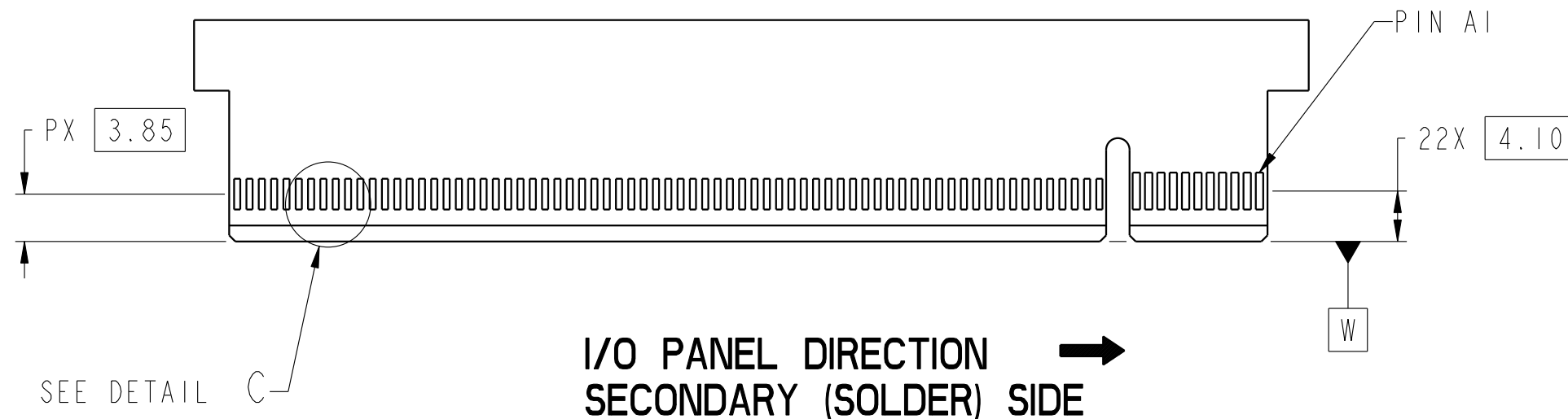
Product - Customer Drw

sheet 1 of 4

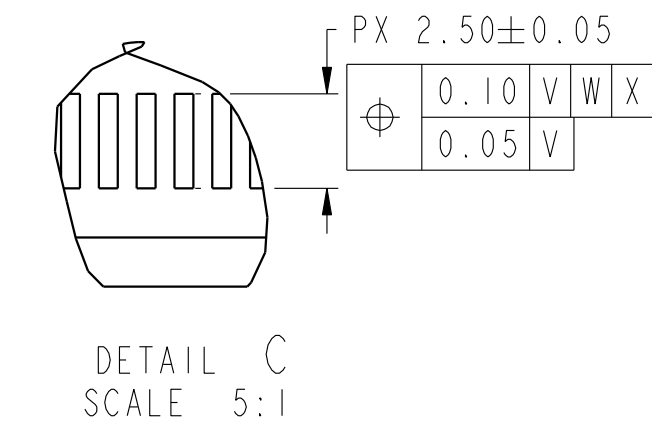
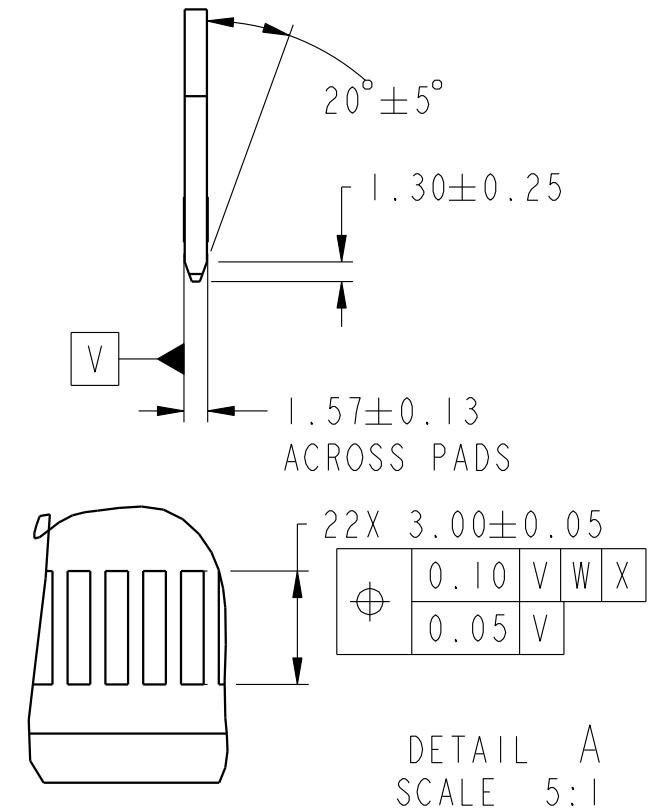
CONNECTOR LINK WIDTH	POSITION	N	P	DIM "G"	DIM "F"
X1	36	6	14	8.15	6.00
X4	64	20	42	22.15	20.00
X8	98	37	76	39.15	37.00
X16	164	70	142	72.15	70.00



← I/O PANEL DIRECTION
PRIMARY (COMPONENT) SIDE

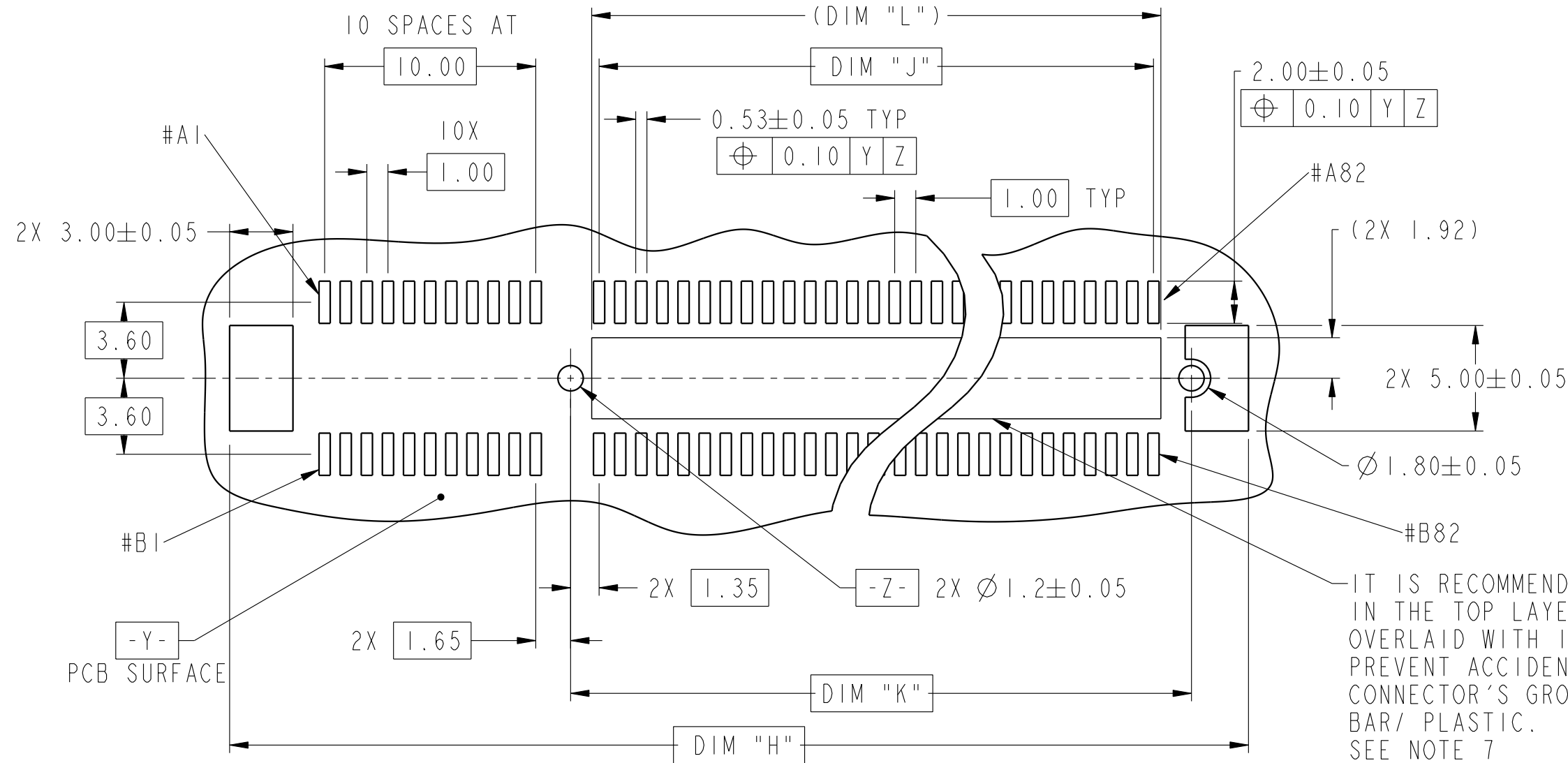


I/O PANEL DIRECTION
SECONDARY (SOLDER) SIDE →



1. NO TIE BAR PERMITTED FROM CARD EDGE TO LEADING EDGE OF PAD FOR PIN AI AND PIN "L".
2. CHAMFER EDGES MUST BE FREE FROM CUTTING BURRS.
3. TOLERANCES FOR AIC, UNLESS OTHERWISE SPECIFIED IS : ± 0.13 .
4. CONTACT AFCI ENGINEERING FOR SI REPORT.

spec ref	-	dr	Cheong, Matthe	2022/03/11	projection	MM	size	A3	scale	2:1
tolerance std	ISO 406 ISO 1101	eng	Cheong, Matthe	2024/05/13	chr	-	ecn no			
surface	ISO 1302	appr	Koon-Poh Tay	2024/05/13	product family	PCI express	rel level	Released		
	linear	0.X	± 0.30		Amphenol FCi	PCI Express Gen 6	dwg no	10165968	rev	A
		0.XX	± 0.20		www.fci.com	SMT Type				
	angular	0°	$\pm 2^\circ$							
					cat. no.		Product - Customer Drw		sheet 2 of 4	



RECOMMENDED PCB LAYOUT, PAD TYPE

DIMENSIONS									
POSITION	A	B ^{+0.15} _{-0.05}	C ±0.10	D ±0.23	E ±0.20	H ±0.05	J	K ±0.10	L
36	6.00	7.65	9.15	25.00	27.00	28.00	6.00	9.15	6.70
64	20.00	21.65	23.15	39.00	41.00	42.00	20.00	23.15	20.70
98	37.00	38.65	40.15	56.00	58.00	59.00	37.00	40.15	37.70
164	70.00	71.65	73.15	89.00	91.00	92.00	70.00	73.15	70.70

1. TOLERANCES FOR PCB, UNLESS OTHERWISE SPECIFIED IS : ±0.13.

spec ref	-	dr	Cheong, Matthe	2022/03/11	projection	MM	size	A3	scale	4:1
tolerance std	ISO 406 ISO 1101	eng	Cheong, Matthe	2024/05/13	chr	-	ecp no			
surface	-	appr	Koon-Poh Tay	2024/05/13	product family	PCI express	rel level	Released		
linear	0.X ±0.30 0.XX ±0.20 0.XXX ±0.1	Amphenol FCi	PCI Express Gen 6	dwg no	10165968	rev	A			
angular	0° ±2°	www.fci.com	cat. no.	-	Product - Customer Drw	sheet 3 of 4				

PRODUCT NUMBER CODE

10165968- 00LF

HOUSING COLOR

1: BLACK

CONTACT AREA PLATING

1: 30u" Au
2: 15u" Au

NO. OF POSITION

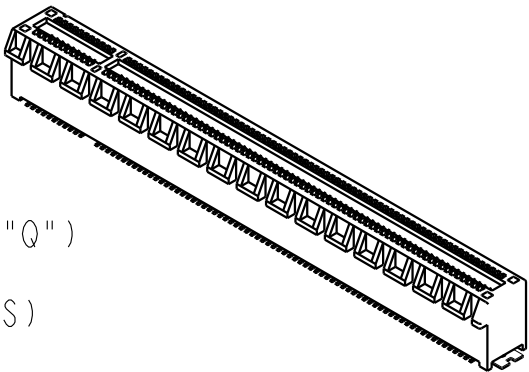
0: 36 POSITIONS
1: 64 POSITIONS
2: 98 POSITIONS
3: 164 POSITIONS

PICK-UP OPTIONS

0: NIL
1: PICK UP CAP (NOT AVAIL. FOR PACKAGING OPTION "Q")
3: KAPTON TAPE, 22 x 8.5MM WIDTH (ALL POS)
4: KAPTON TAPE, 30 x 8.5MM WIDTH (64, 98 & 164 POS)
5: KAPTON TAPE, 45 x 8.5MM WIDTH (98 & 164 POS)
6: KAPTON TAPE, 53 x 8.5MM WIDTH (98 & 164 POS)
7: KAPTON TAPE, 86.5 x 8.5MM WIDTH (164 POS)

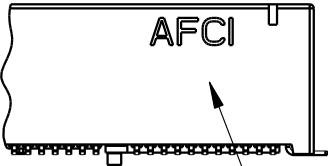
PACKAGING OPTIONS

Q: HARD TRAY (DIM: 323 x 136 x 19) (98 & 164 POS)
T: SOFT TRAY (317.5 x 235 x 18) (36 & 64 POS)
Y: HARD TRAY (DIM: 330 x 235 x 19.3) (98 & 164 POS)



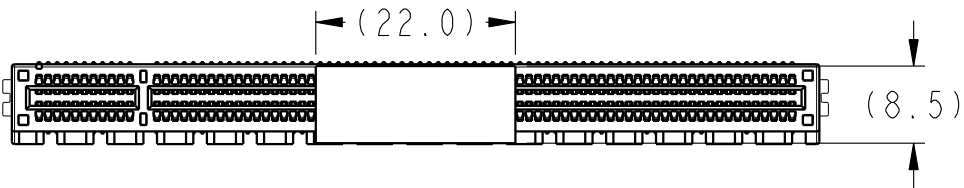
NOTES:

1. MATERIAL:
HOUSING: HIGH PERFORMANCE RESIN, GLASS FILLED, UL 94V-0
CONTACT: COPPER ALLOY.
HOLDDOWN CLIP: COPPER ALLOY
2. PLATING:
CONTACT: UNDERPLATE: 50u" NICKEL OVER ALL.
SOLDER AREA: 100u" TIN (LEAD FREE).
MATING AREA: SEE PRODUCT NUMBER CODE.
HOLDDOWN CLIP: 100u" TIN OVER 50 u" NICKEL.
3. PRODUCT SPECIFICATION: GS-12-1406
4. PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-004.
5. DATE CODE "MMDDYYL", MMDDYY IS ASSEMBLY DATE.
L IS AFCI PRODUCTION SITE.
6. THE HOUSING WILL WITHSTAND EXPOSURE TO 260° PEAK TEMPERATURE FOR 10 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
7. THERE IS GROUND BUSSING WITHIN THE CONNECTOR SYSTEM. FOR DIFFERENTIAL PAIR'S GROUND LOCATION, PLEASE REFER TO THE CONNECTOR PINOUT TABLE FROM CHAPTER 6 OF PCI EXPRESS CARD ELECTROMECHANICAL SPECIFICATION.

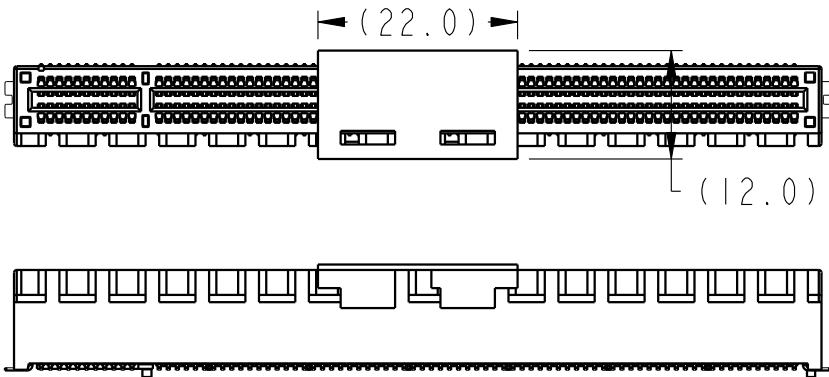


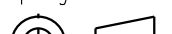
DATA CODE & PARTNO

POSITION OF KAPTON TAPE



POSITION OF PICK UP CAP



spec ref -				dr	Cheong, Matthe	2022/03/11			size	A3	scale	3:1		
tolerance std				eng	Cheong, Matthe	2024/05/13			ecn no					
ISO 406 ISO 1101				chr	-	-								
TOLERANCES UNLESS OTHERWISE SPECIFIED				appr	Koon-Poh Tay	2024/05/13			product family	PCI express	rel level	Released		
surface ISO 1302		linear	0.X	±0.30	Amphenol FCi	title	PCI Express Gen 6			dwg no	10165968		rev	A
			0.XX	±0.20										
			0.XXX	±0.1										
		angular	0°	±2°										