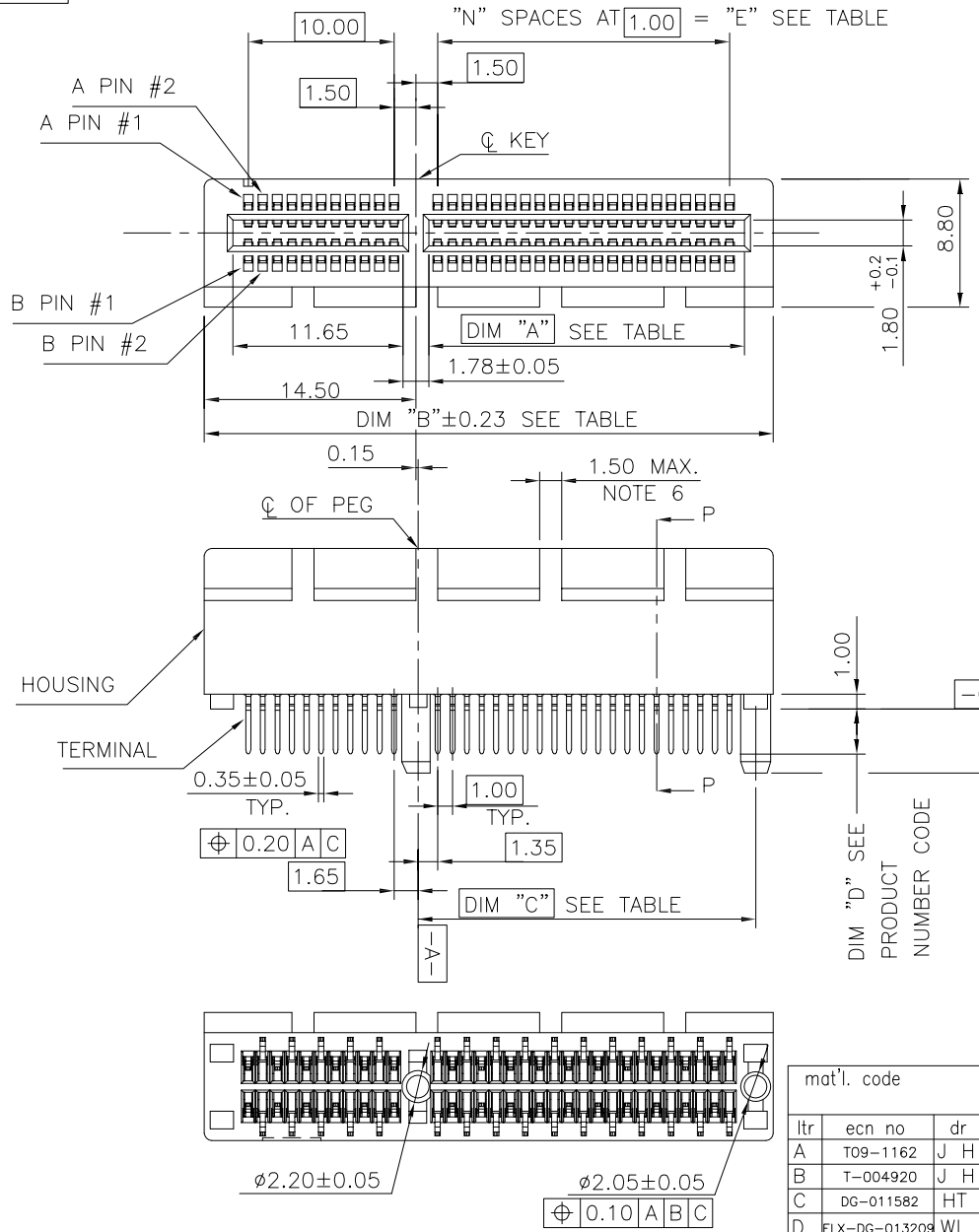
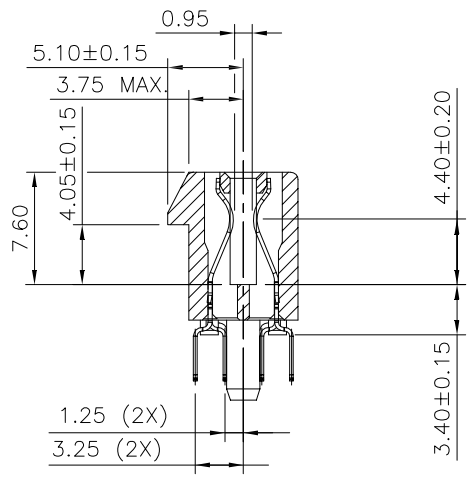
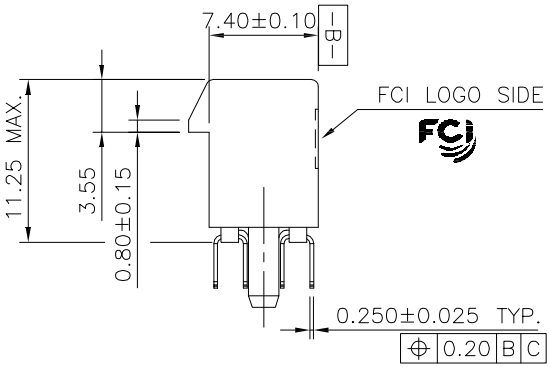
PRODUCT NO.
10108777-X0XXXX





SECTION P-P



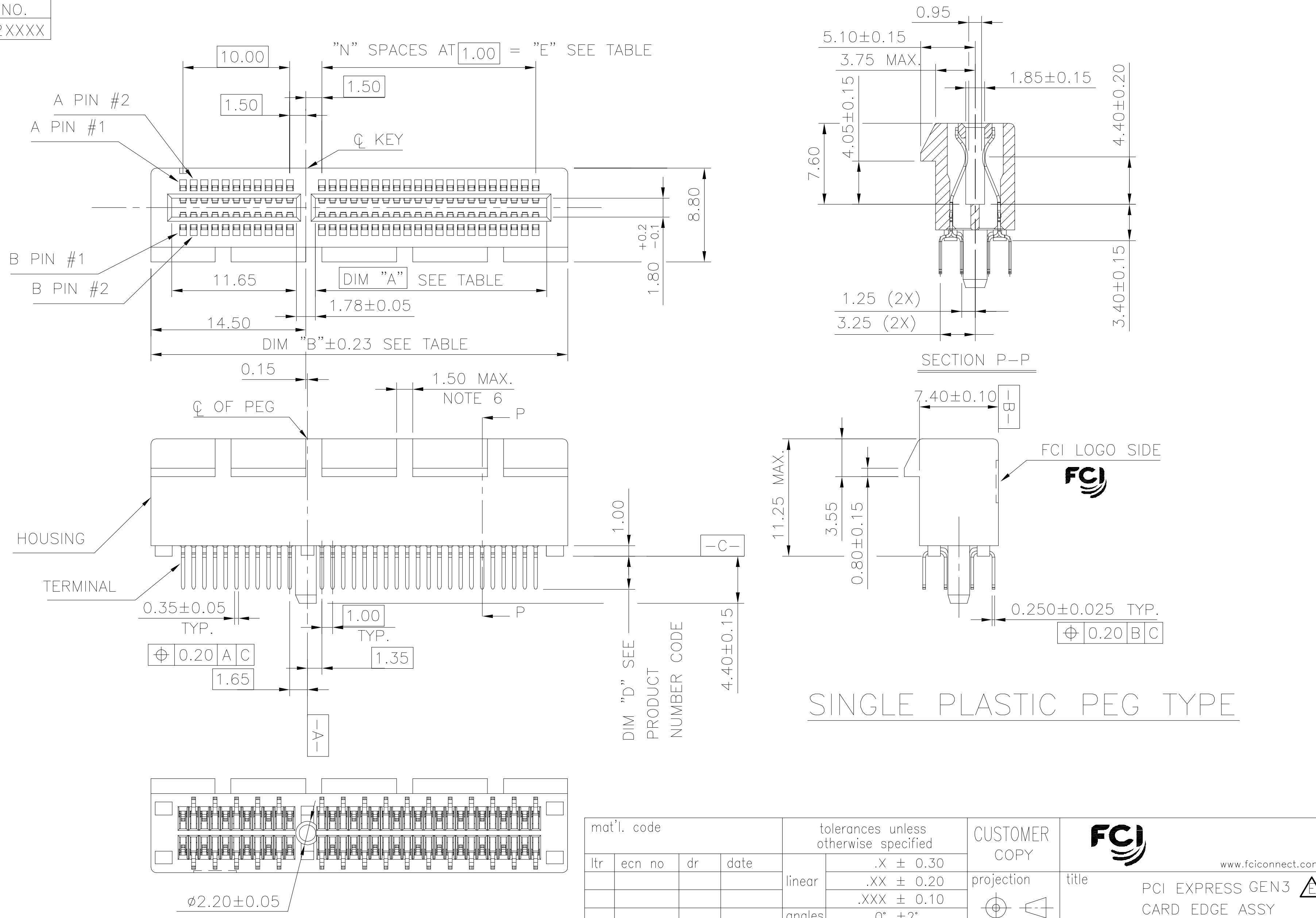
TWIN PLASTIC PEG TYPE

mat'l. code				tolerances unless otherwise specified				CUSTOMER COPY	www.fciconnect.com
ltr	ecn no	dr	date	linear	.X ± 0.30			projection	title: PCI EXPRESS GEN3 CARD EDGE ASSY (E)
A	T09-1162	J H	10/29/09		.XX ± 0.20				
B	T-004920	J H	6/8/11		.XXX ± 0.10				
C	DG-011582	HT	5/10/12	angles	0° ±2°				
D	ELX-DG-013209	WL	07/24/12	dr	STONE LI	05/27/15		MM	product family: EDGE CARD; code: TWN
E	ELX-DG-21161-1	ST	05/27/15	engr	STONE LI	05/27/15			size: A4; dwg no: 10108777
				chr	/	/		scale 2:1	sheet 1 of 7
				appd	PM ZHENG	05/27/15			

sheet index	revision								
	sheet	1	2	3	4	5	6	7	

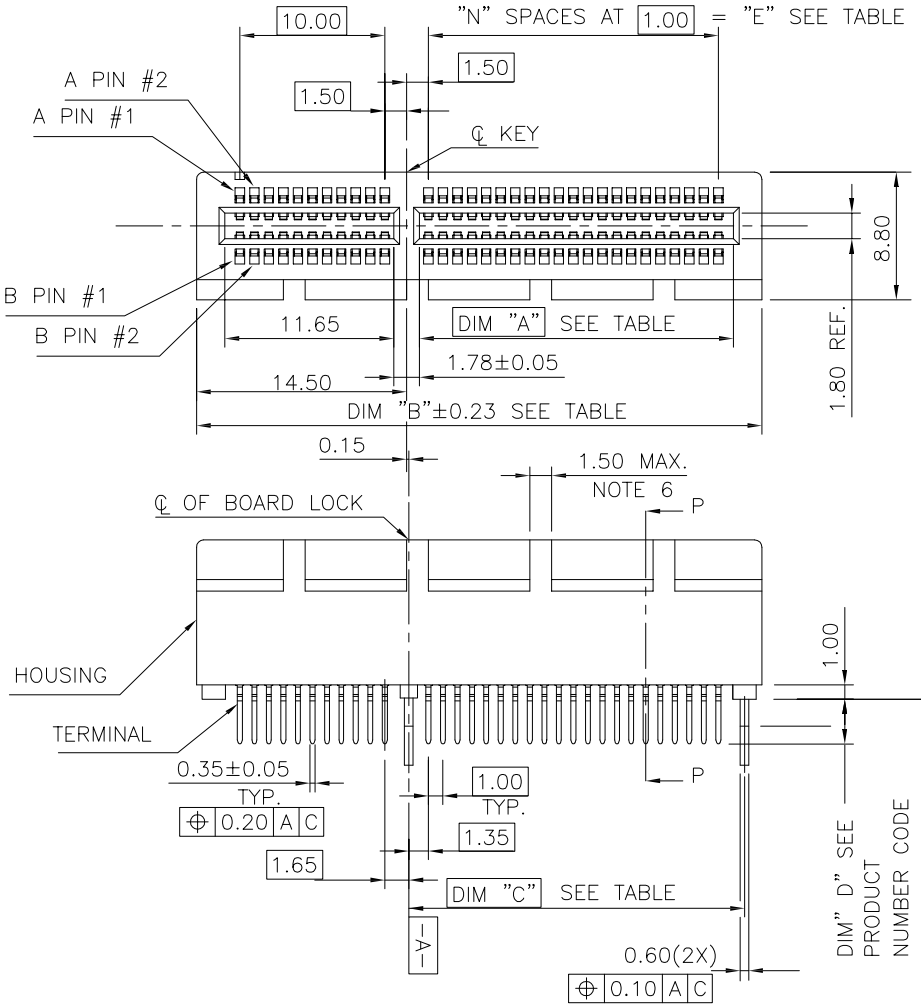
cage code

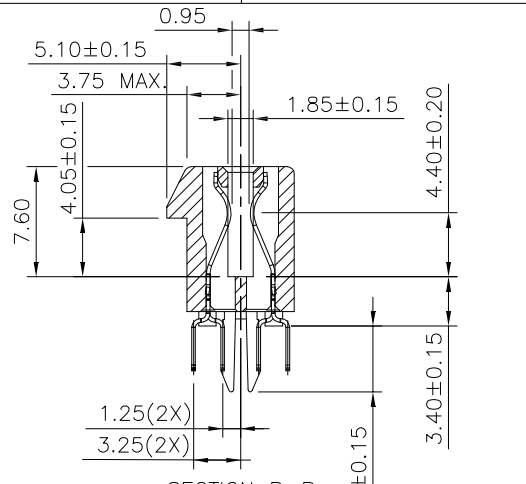
PRODUCT NO.
10108777-X2XXXX

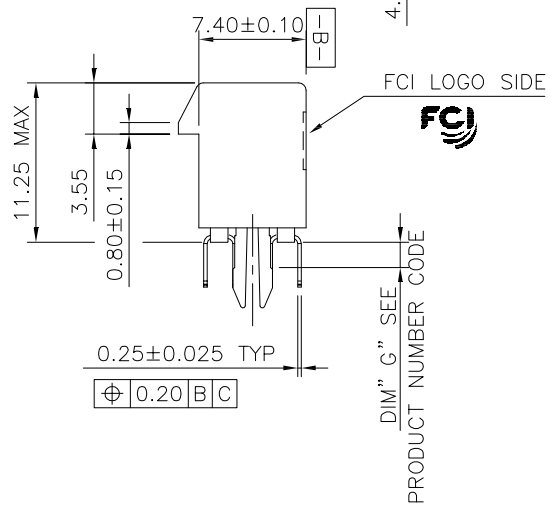


mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY	FCI www.fciconnect.com		
ltr	ecn no	dr	date	linear	.X ± 0.30		projection	title PCI EXPRESS GEN3 CARD EDGE ASSY (E)		
					.XX ± 0.20					
					.XXX ± 0.10					
				angles	0° ±2°					
				dr	STONE LI	05/27/15	MM	product family	EDGE CARD	code TWN
				engr	STONE LI	05/27/15		size A4	dwg no 10108777	sheet 2 of
				chr	/	/	scale 2:1			
				appd	PM ZHENG	05/27/15				
sheet index	revision sheet							cage code		

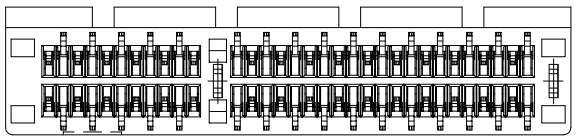
PRODUCT NO.
10108777–X1XXXX



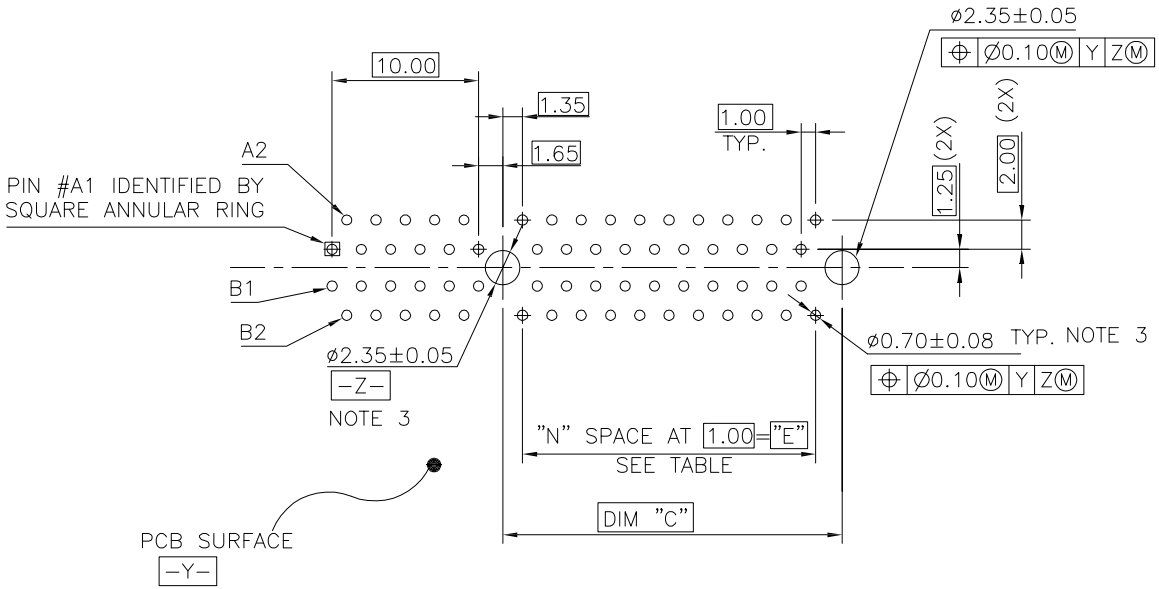




METAL BOARD LOCKS TYPE



mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY	FCI www.fciconnect.com	
ltr	ecn no	dr	date	linear	.X ± 0.30			title	PCI EXPRESS GEN3 CARD EDGE ASSY E
					.XX ± 0.20		projection		
					.XXX ± 0.10				
				angles	0° ±2°				
				dr	STONE LI	05/27/15	MM	product family EDGE CARD	code TWN
				engr	STONE LI	05/27/15		size A4 dwg no 10108777	sheet 3 of
				chr	/	/	scale 2:1		
				appd	PM ZHENG	05/27/15			
sheet index	revision sheet							cage code	



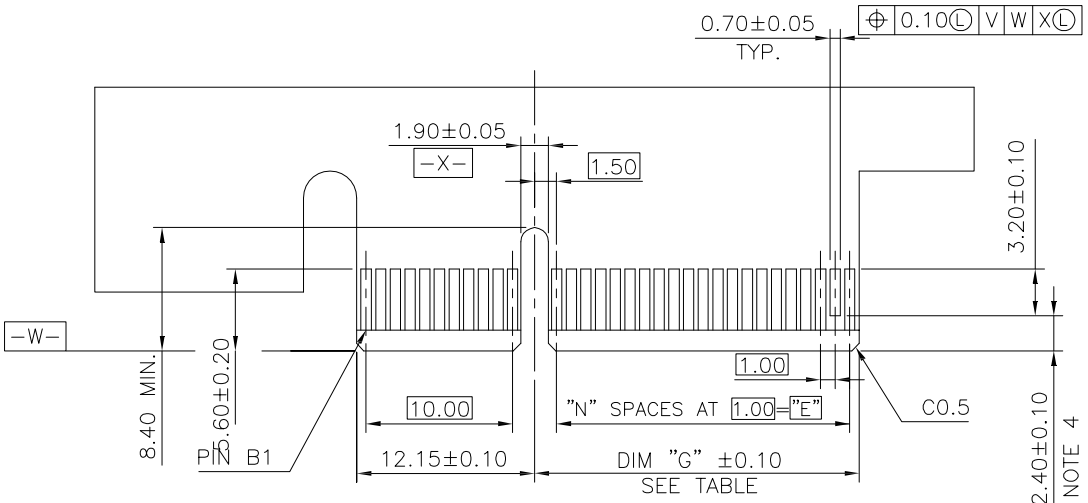
I/O PANEL DIRECTION

RECOMMENDED FOOTPRINT

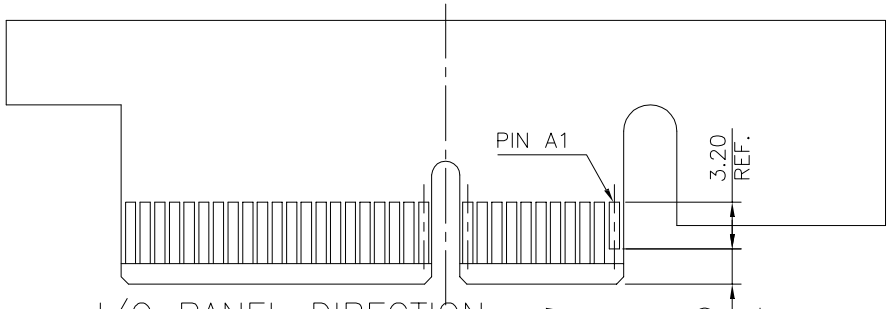
mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY	FCI www.fciconnect.com			
ltr	ecn no	dr	date	linear	.X ±						
					.XX ±		projection	title	PCI EXPRESS GEN3 CARD EDGE ASS'Y		E
					.XXX ±						
				angles	0° ±2°						
				dr	STONE LI	05/27/15	MM	product family	EDGE CARD	code	TWN
				engr	STONE LI	05/27/15		size	dwg no		
				chr	/	/	scale	A4	10108777	sheet	4 of
				appd	PM ZHENG	05/27/15	2:1				
sheet index	revision sheet										

cage code

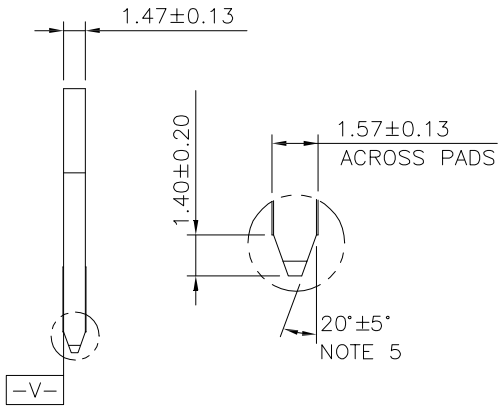
PDS: Rev :E ACAD STATUS:Released Printed: Jul 09, 2015



← I/O PANEL DIRECTION
PRIMARY (COMPONENT) SIDE



I/O PANEL DIRECTION →
SECONDARY (SOLDER) SIDE



SCALE 2:1

ADD–IN CARD EDGE–FINGER DIMENSIONS

# POS REF.	N	DIM "G"	"F"
36	6	8.15	B17
64	20	22.15	B31
98	37	39.15	B48
164	70	72.15	B81

mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY
ltr	ecn no	dr	date	linear	.X ±		
					.XX ±		projection
					.XXX ±		
				angles	0° ±2°		
				dr	STONE LI	05/27/15	MM
				engr	STONE LI	05/27/15	
				chr	/	/	scale 2:1
				appd	PM ZHENG	05/27/15	
sheet index	revision sheet						

FCI www.fciconnect.com

title: PCI EXPRESS GEN3 CARD EDGE ASS'Y

product family: EDGE CARD | code: TWN

size: A4 | dwg no: 10108777 | sheet: 5 of

cage code

NOTES:

1.MATERIAL:

HOUSING: HIGH TEMPERATURE NYLON, GLASS FILLED UL94V–0 RATED.
TERMINAL: COPPER ALLOY.
PLATING: 50u" NICKEL UNDERPLATE ALL OVER
CONTACT AREA PLATING – SEE PRODUCT NUMBER CODE
SOLDER TAIL: TIN OR TIN /LEAD(90/10)– SEE PRODUCT NUMBER CODE 100u" MIN. OVER 50u" NICKEL.
METAL BOARD LOCKS: COPPER ALLOY.
FINISH: 100u" TIN OR TIN/LEAD(90/10) OVER 50u" NICKEL UNDERPLATE SEE PRODUCT NUMBER CODE.

2.PRODUCT SPECIFICATION: GS–12–233.

③THE HORIZONTAL AXIS FOR THE HOLE PATTERN IS ESTABLISHED BY A LINE THROUGH THE CENTER OF THE TWO ø2.35 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 AND PIN NUMBERS "F".

⑤CHAMFER EDGES MUST BE FREE OF CUTTING BURRS.

⑥FREQUENCY & LOCATION AT SUPPLIER DISCRETION. RIDGE MAY BE CONTINUOUS WITH NO BREAKS.

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 TEMPERATURE FOR 10 SECONDS IN RE–FLOW APPLICATION, SEE NOTE 8 FOR APPLICATION.

CONNECTOR	# POS REF.	N	DIM "A"	DIM "B"	DIM "C"	"E"
1 PORT	36	6	7.65	25.00	9.15	6.00
4 PORT	64	20	21.65	39.00	23.15	20.00
8 PORT	98	37	38.65	56.00	40.15	37.00
16 PORT	164	70	71.65	89.00	73.15	70.00

8.AN ADEQUATE PROCEDURE SET FORTH IN THE FOLLOWING ENSURE THAT THE PRODUCT RELIABILITY CAN BE ACHIEVED DURING AND AFTER PCB ASSEMBLY OPERATION.
8.1IF PARTIAL LOT ARE USED, THE REMAINING CONNECTORS MUST BE RESEALED AND PLACED IN SAFE STORAGE WITHIN SIX HOURS OF BAG OPENING.
8.2THE SAFE STORAGE CONDITION IS RECOMMENDED AT 25°C, 40%RH.
8.3NOT FOLLOWING THE PROCEDURE MAY CAUSE BLISTER DAMAGE DURING RE–FLOW PROCESS.
8.4IF BAKING IS REQUIRED, CONNECTOR SHALL BE BAKED FOR 4 HOURS AT 125°C.
8.5REFERENCE SPECIFICATION: IPC/JEDEC J–STD–033A.

PRODUCT NUMBER CODE

10108777 –X X X X X X □ □

HOUSING COLOR OPTIONS
0–NATURAL
1–BLACK

PEGS OPTIONS
0–PLASTIC PEGS
1–METAL BOARD LOCKS
2–SINGLE PLASTIC PEGS

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
3–50u" Ni UNDERPLATE
30u" Au CONTACT AREA
100u" TIN/LEAD TAIL AREA ----- INCOMPLIANT RoHS
4–50u" Ni UNDERPLATE
15u" Au CONTACT AREA
100u" TIN/LEAD TAIL AREA ----- INCOMPLIANT RoHS
5–50u" Ni UNDERPLATE
GOLD FLASH CONTACT AREA
100u" TIN/LEAD TAIL AREA ----- INCOMPLIANT RoHS

POS OPTIONS
0–36
1–64
2–98
3–164

LEAD FREE OPTION
LEAVE BLANK FOR TERMINAL PLATING 3.4.5
"LF" FOR TERMINAL PLATING OPTION 0,1,2

PACKAGING OPTIONS
T–SOFT TRAY PACKAGING
M–SOFT TRAY PACKAGING & MYLAR TAPE. SEE FIGULE 1
Y–HARD TRAY PACKAGING (FOR 164P ONLY)
Z–HARD TRAY PACKAGING WITH MYLAR (FOR 164P ONLY)
R–TAPE & REEL PACKAGING WITHOUT MYLAR (FOR 34, 64, 98P ONLY)
W–TAPE & REEL PACKAGING WITHOUT MYLAR (FOR 98P ONLY), WITH 18.0MM CAVITY WIDTH
A–TAPE & REEL PACKAGING WITH MYLAR (FOR 36, 64, 98P)

TAIL LENGTH OPTIONS

	DIM "D"	PCB THICKNESS	BOARD LOCKS DIM "G"
0	$2.30^{+0.25}_{-0.13}$	1.56±0.10	1.70±0.15
1	$3.10^{+0.25}_{-0.13}$	2.36±0.10	2.50±0.15
2	2.54±0.25	1.56±0.10	1.70±0.15
3	1.90±0.25	1.56±0.10	1.70±0.15
4	$3.10^{+0.25}_{-0.13}$	2.0±0.10	1.70±0.15

mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY	FCI www.fciconnect.com
ltr	ecn no	dr	date	linear	.X ±			
					.XX ±		projection	title: PCI EXPRESS GEN3 CARD EDGE ASS'Y
					.XXX ±			
				angles	0° ±2°			
				dr	STONE LI	05/27/15	MM	product family: EDGE CARD; code: TWN
				engr	STONE LI	05/27/15		size: A4; dwg no: 10108777
				chr	/	/	scale 1:1	sheet 6 of 7
				appd	PM ZHENG	05/27/15		
sheet index	revision sheet							cage code

A

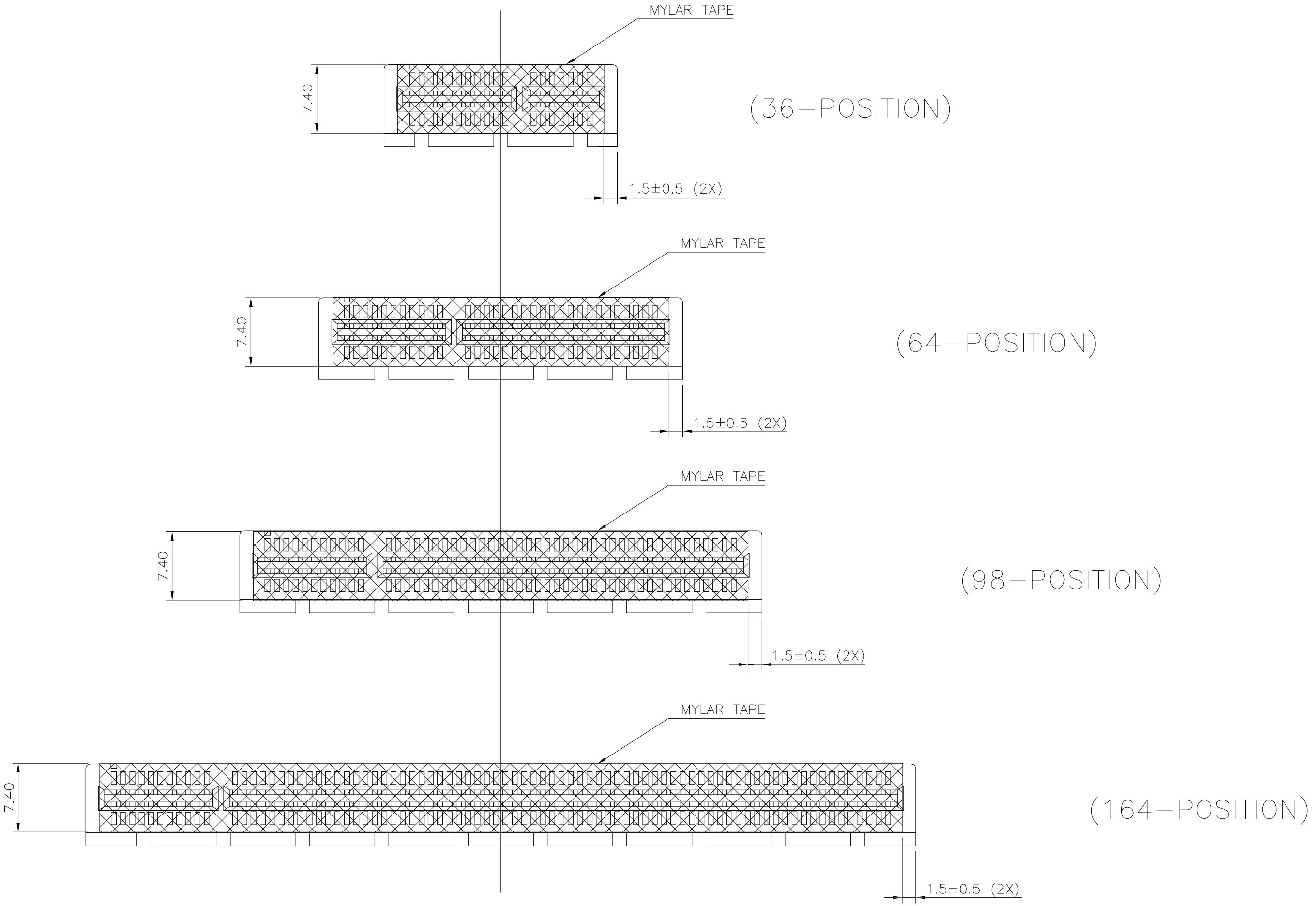


FIGURE 1

B

mat'l. code				tolerances unless otherwise specified			CUSTOMER COPY	FCI www.fciconnect.com
ltr	ecn no	dr	date	linear	.X ± 0.25		projection	title PCI EXPRESS GEN3 CARD EDGE ASS'Y (E)
					.XX ± 0.13			
					.XXX ± 0.05			
				angles	0° ±2°			
				dr	STONE LI	05/27/15	MM	product family EDGE CARD; code TWN
				engr	STONE LI	05/27/15		size A4; dwg no 10108777
				chr	/	/	scale 1.5:1	sheet 7 of
				appd	PM ZHENG	05/27/15		
sheet index	revision sheet							

cage code

ACAD

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