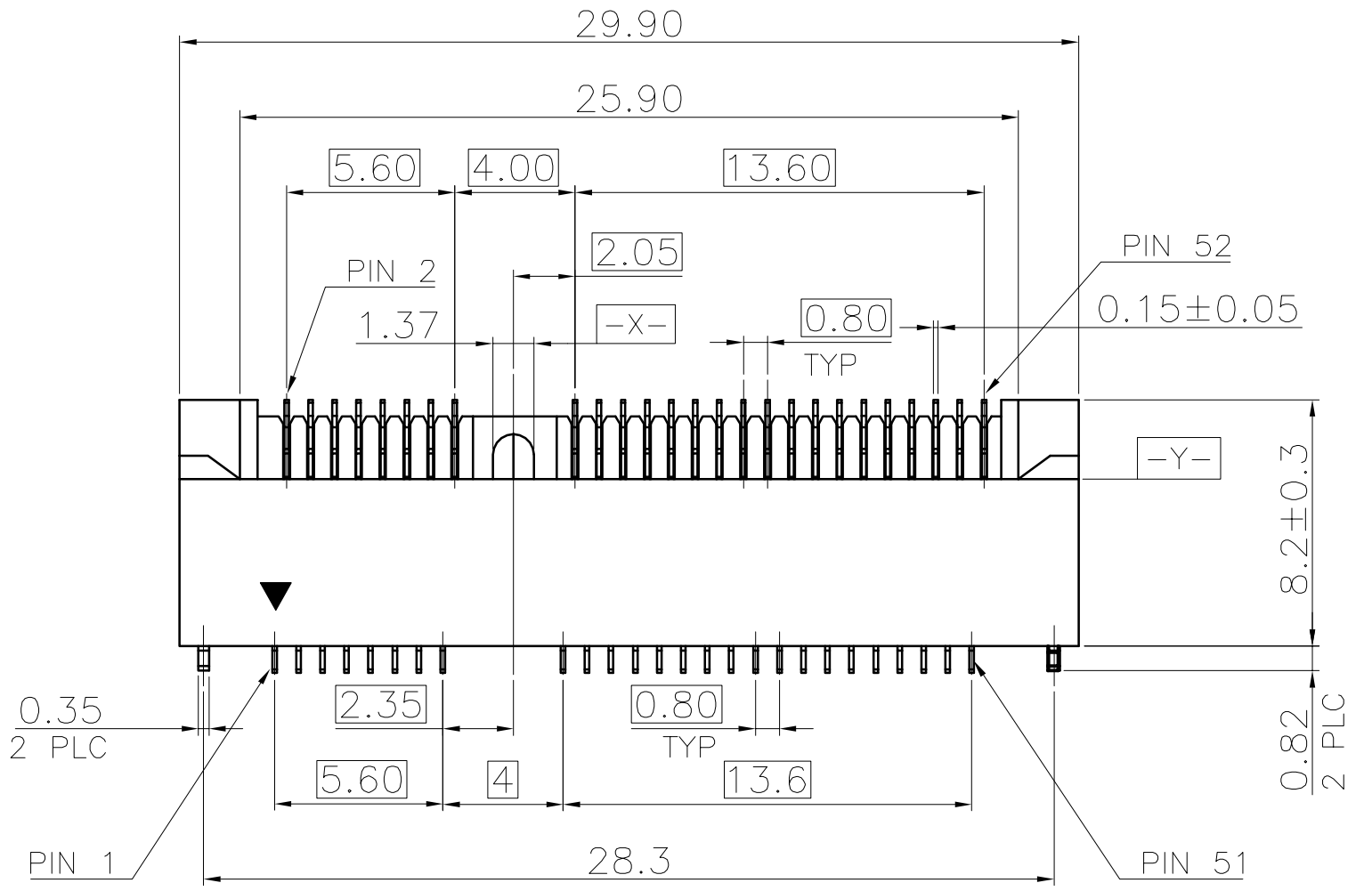
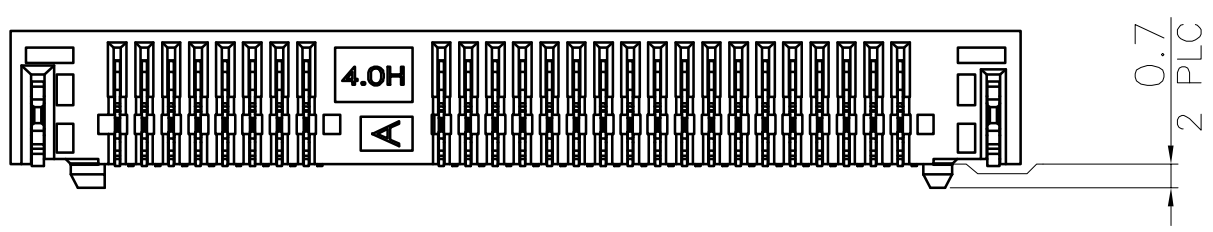
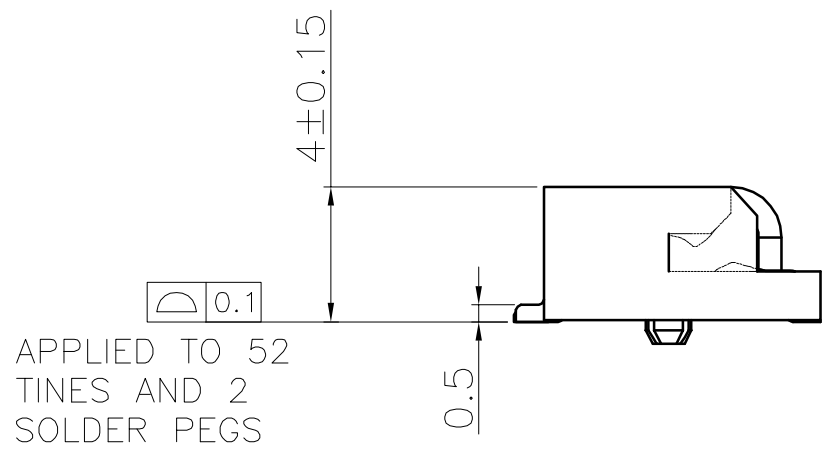
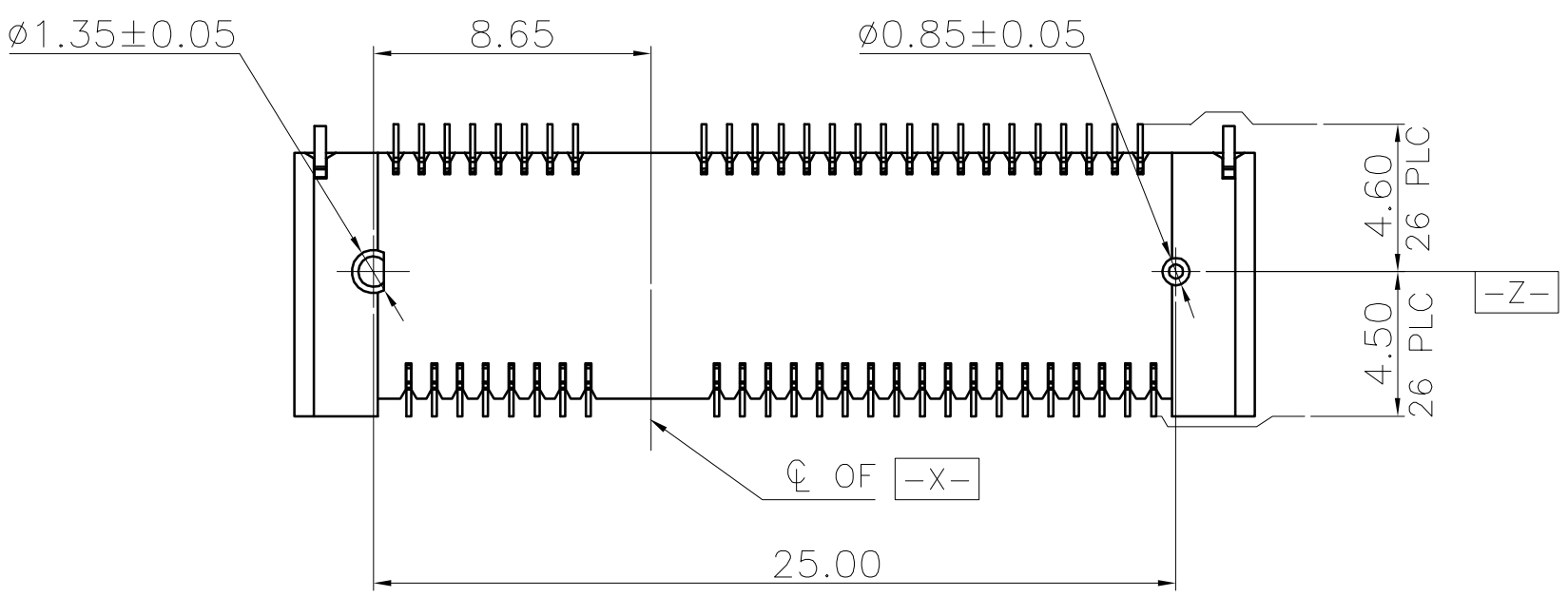
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Amphenol FCi









mat'l. code	surface	tolerance	projection	product family
—	-	ASME_Y14.5		PCI_EXPRESS
	tolerances unless otherwise specified		MM	title: MINI_PCIE 4.0MM_HEIGHT
	angles ±2°	linear .0±0.30 / .00±0.20 / .000±0.10	scale N/A	

ltr	ecn no	dr	date

dr	WINSTON_ZHU	2020-05-12
engr	ZHENHUA_LIU	2020-05-12
chr		
appd	HEAVEN_CEN	2020-05-12

Amphenol FCi

dwg no	sheet 1 of 5	size
10150657		A4
type	CUSTOMER Drawing	

sheet index	revision	A
	sheet	

form: A4mmXLc-2016-02-24

PDS: Rev :A STATUS:Released Printed: May 27, 2020

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NOTES:

1. MATERIAL:
   HOUSING: HIGH TEMPERATURE PLASTIC, UL94 V-0, BLACK COLOR,
   CONTACTS: COPPER ALLOY
   PEGS: COPPER ALLOY

2. FINISH:
   CONTACTS: SELECTED GOLD PLATING ON THE CONTACT AREA,
   1u" . GOLD PLATING ON THE SOLDERTAILS,
   50u" . NICKEL UNDERPLATING OVER ALL.
   PEGS: 120u" . MATTE-TIN OVER 50u" MIN. NICKEL.

3. CARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING AND/OR METALLIZATION.

4. EDGE BEVEL MUST BE PRESENT AND FREE OF CUTTING BURRS FROM PCB AND CONTACT MATERIALS.

5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN RE-FLOW APPLICATION0.

6. PRODUCT SPECIFICATION:GS-12-1513

PRODUCT NUMBER CODE

10150657 - 052 R X LF

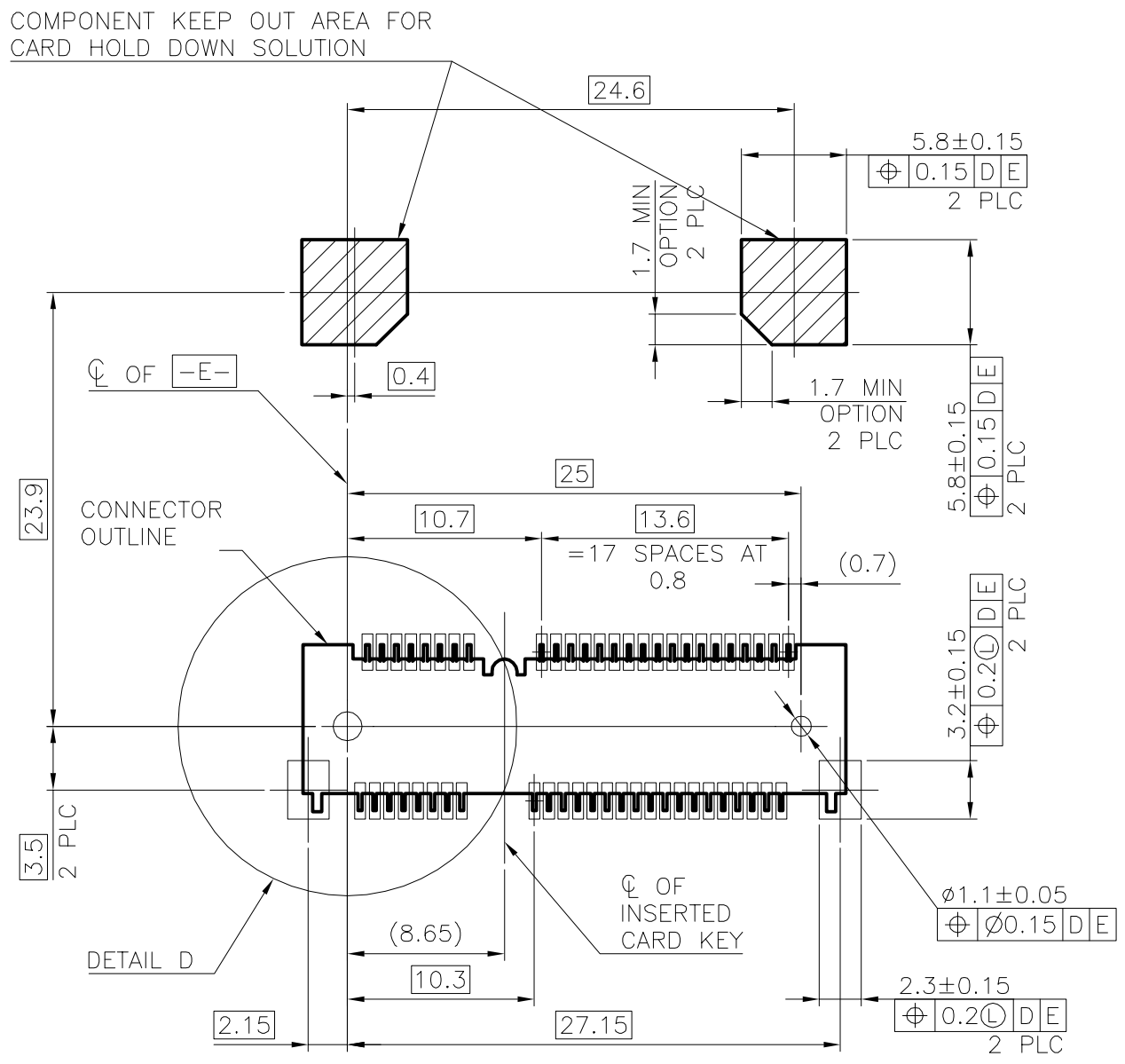
- 052: 52 CONTACTS
- R: PACKING OPTIONS — R: TAPE & REEL
- X: CONTACT AREA PLATING — 0: 30u" GOLD; 1: 10u" GOLD; 2: GOLD FLASH
- LF: LEAD FREE

mat'l. code	–	surface	-
tolerance	ASME_Y14.5	projection	
product family	PCI_EXPRESS		
ltr / ecn no / dr / date		tolerances unless otherwise specified	
angles	±2°	linear	.0±.0.30 / .00±.0.20 / .000±.0.10
		MM	
		scale	N/A
title	MINI_PCIE 4.0MM_HEIGHT		
dr	WINSTON_ZHU	2020-05-12	
engr	ZHENHUA_LIU	2020-05-12	
chr			
appd	HEAVEN_CEN	2020-05-12	
dwg no	10150657	sheet 2 of 5	size A4
type	CUSTOMER Drawing		
sheet index	revision sheet	A	

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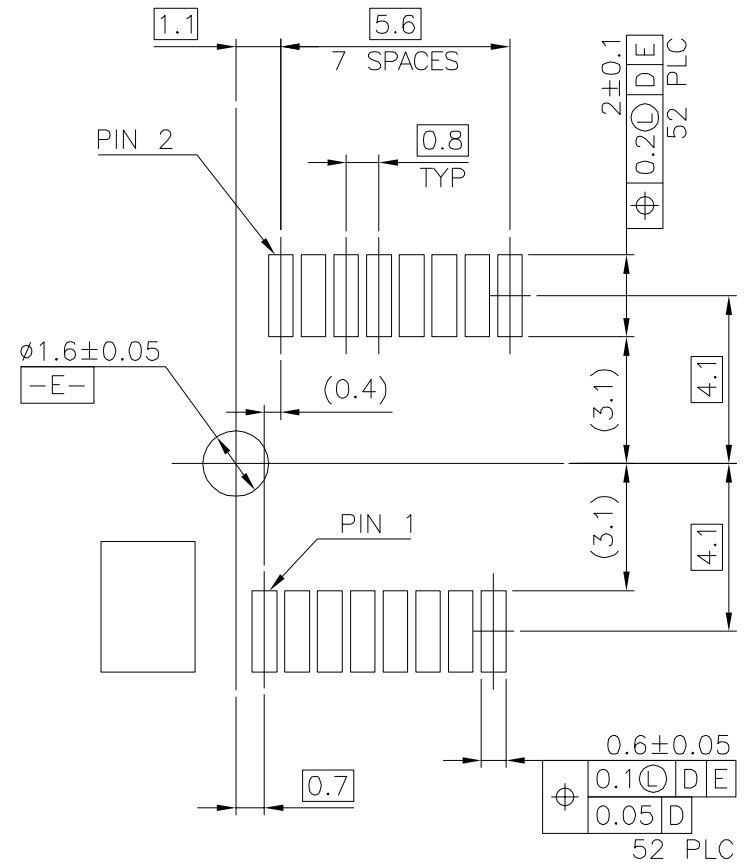
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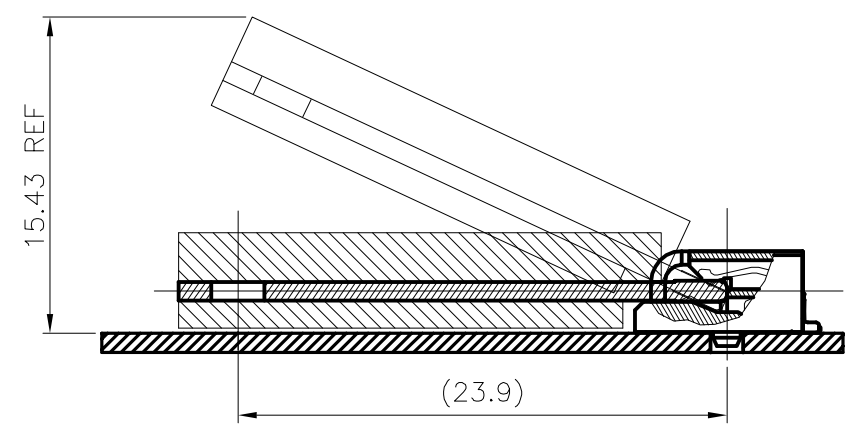


-D- IS THE TOP SURFACE OF PCB.

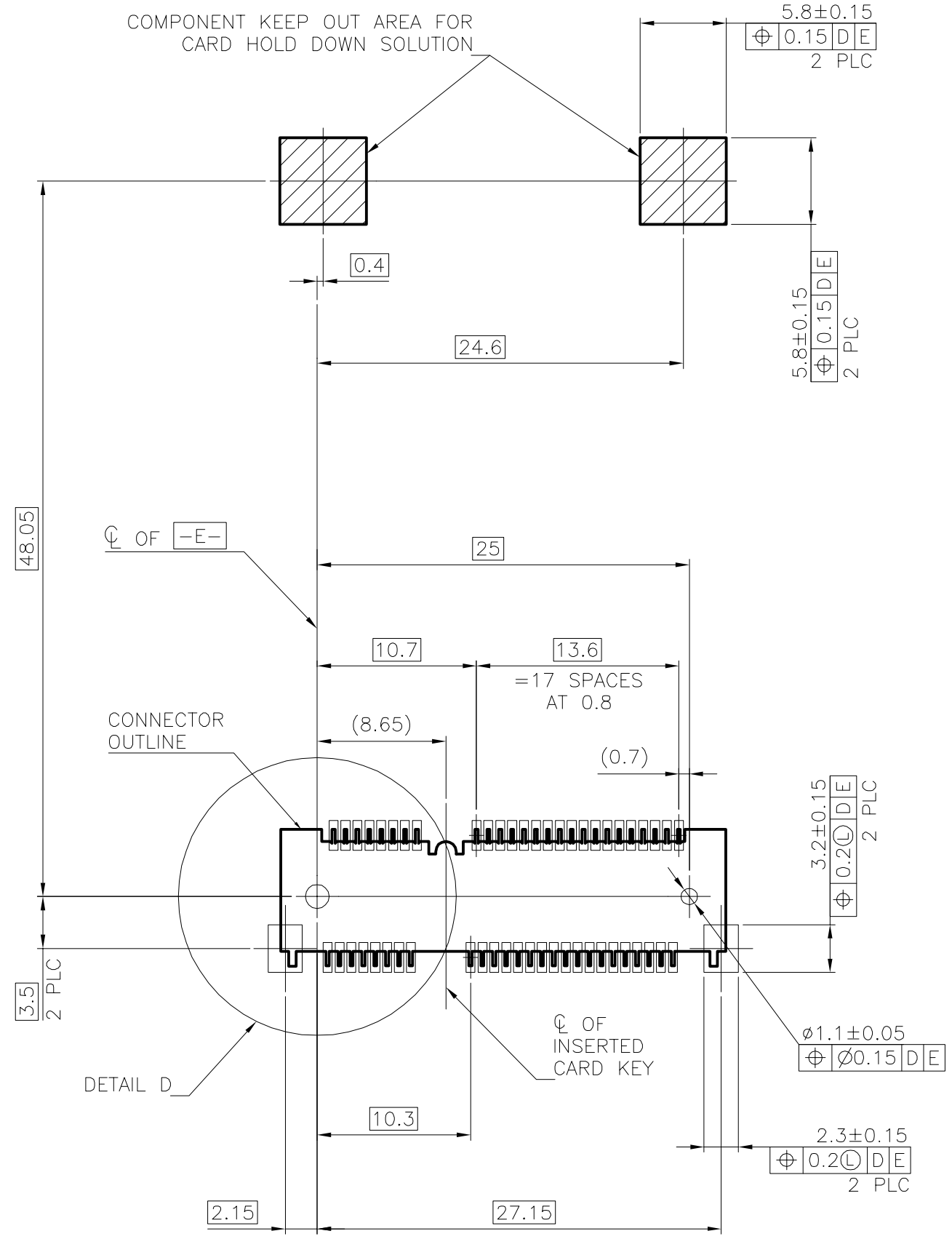
RECOMMENDED P.C. BOARD PATTERN LAYOUT
FOR HALF CARD CONNECTOR
(TOP VIEW)



DETAIL D
SCALE 2:1

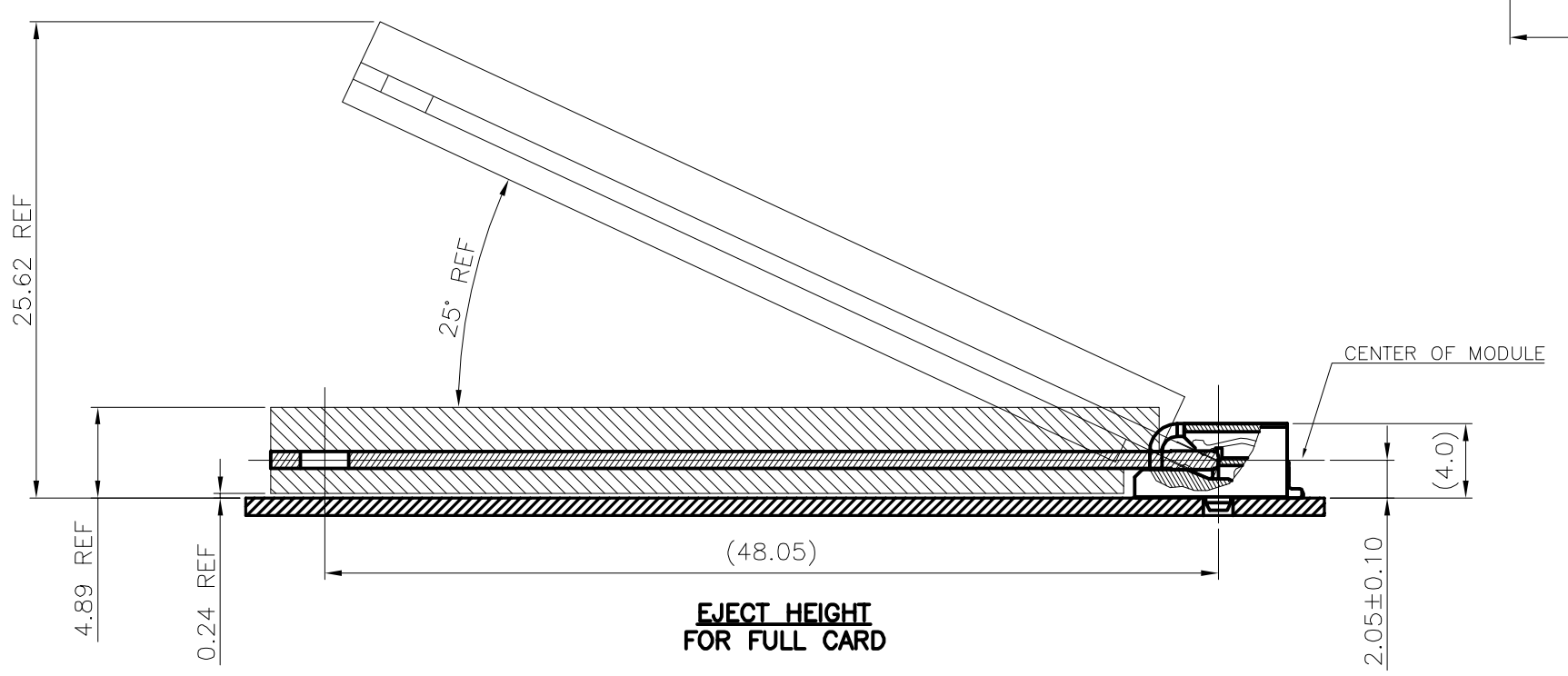


EJECT HEIGHT
FOR HALF CARD



-D- IS THE TOP SURFACE OF PCB.

RECOMMENDED P.C. BOARD PATTERN LAYOUT
FOR FULL CARD CONNECTOR
(TOP VIEW)



EJECT HEIGHT
FOR FULL CARD

mat'l. code: –	surface: – ✓ / tolerance: ASME_Y14.5	projection	product family: PCI_EXPRESS
ltr / ecn no / dr / date	tolerances unless otherwise specified: angles ±2°; linear .0±0.30, .00±0.20, .000±0.10	MM / scale N/A	title: MINI_PCIE 4.0MM_HEIGHT
	dr WINSTON_ZHU 2020-05-12; engr ZHENHUA_LIU 2020-05-12; chr; appd HEAVEN_CEN 2020-05-12	Amphenol FCi	dwg no 10150657 / sheet 3 of 5 / size A4 / type CUSTOMER Drawing
sheet index / revision A / sheet			

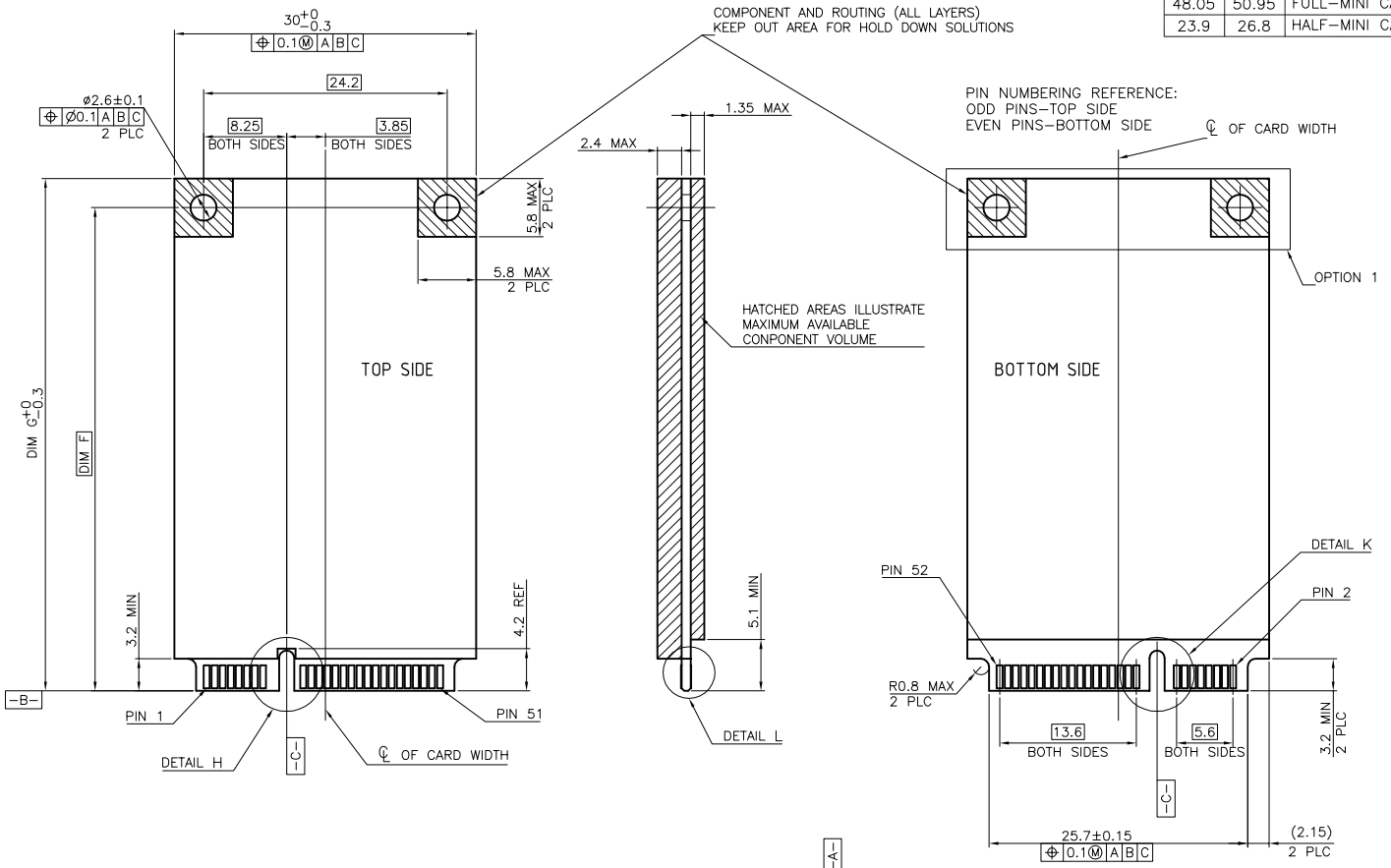
PDS: Rev :A STATUS:Released Printed: May 27, 2020

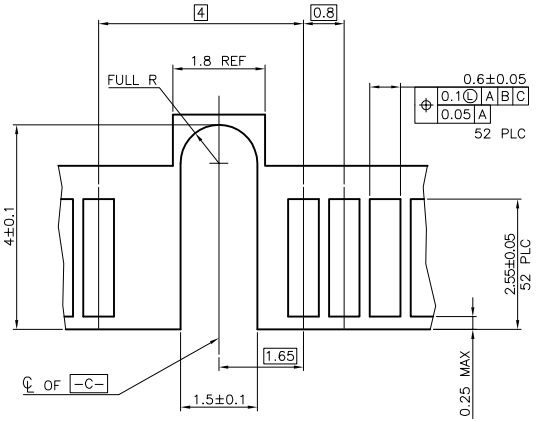
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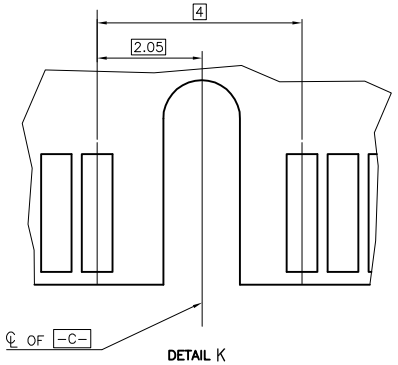
Amphenol FCi

DIM F	DIM G	
48.05	50.95	FULL–MINI CARD
23.9	26.8	HALF–MINI CARD

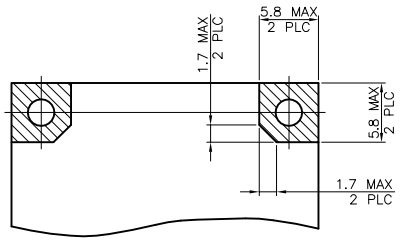




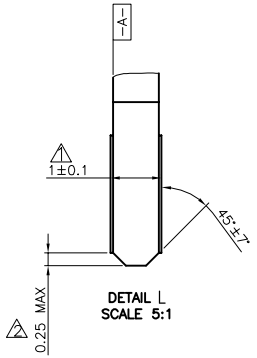
DETAIL H
SCALE 5:1
(TOP SIDE)



DETAIL K
SCALE 5:1
(BOTTOM SIDE)



OPTION 1
FOR HALF–MINI CARD
(TOP & BOTTOM SIDE)



DETAIL L
SCALE 5:1

FOR PCI EXPRESS MINI CARD

mat'l. code: –	surface: -	tolerance: ASME_Y14.5	projection
ltr / ecn no / dr / date	tolerances unless otherwise specified		MM
	angles: ±2°	linear: .0±.0.30 / .00±.0.20 / .000±.0.10	scale N/A
	dr: WINSTON_ZHU 2020–05–12		Amphenol FCi
	engr: ZHENHUA_LIU 2020–05–12		
	chr:		
	appd: HEAVEN_CEN 2020–05–12		
sheet index / revision: A / sheet			

product family	PCI_EXPRESS
title	MINI_PCIE 4.0MM_HEIGHT
dwg no	10150657
sheet	4 of 5
size	A4
type	CUSTOMER Drawing

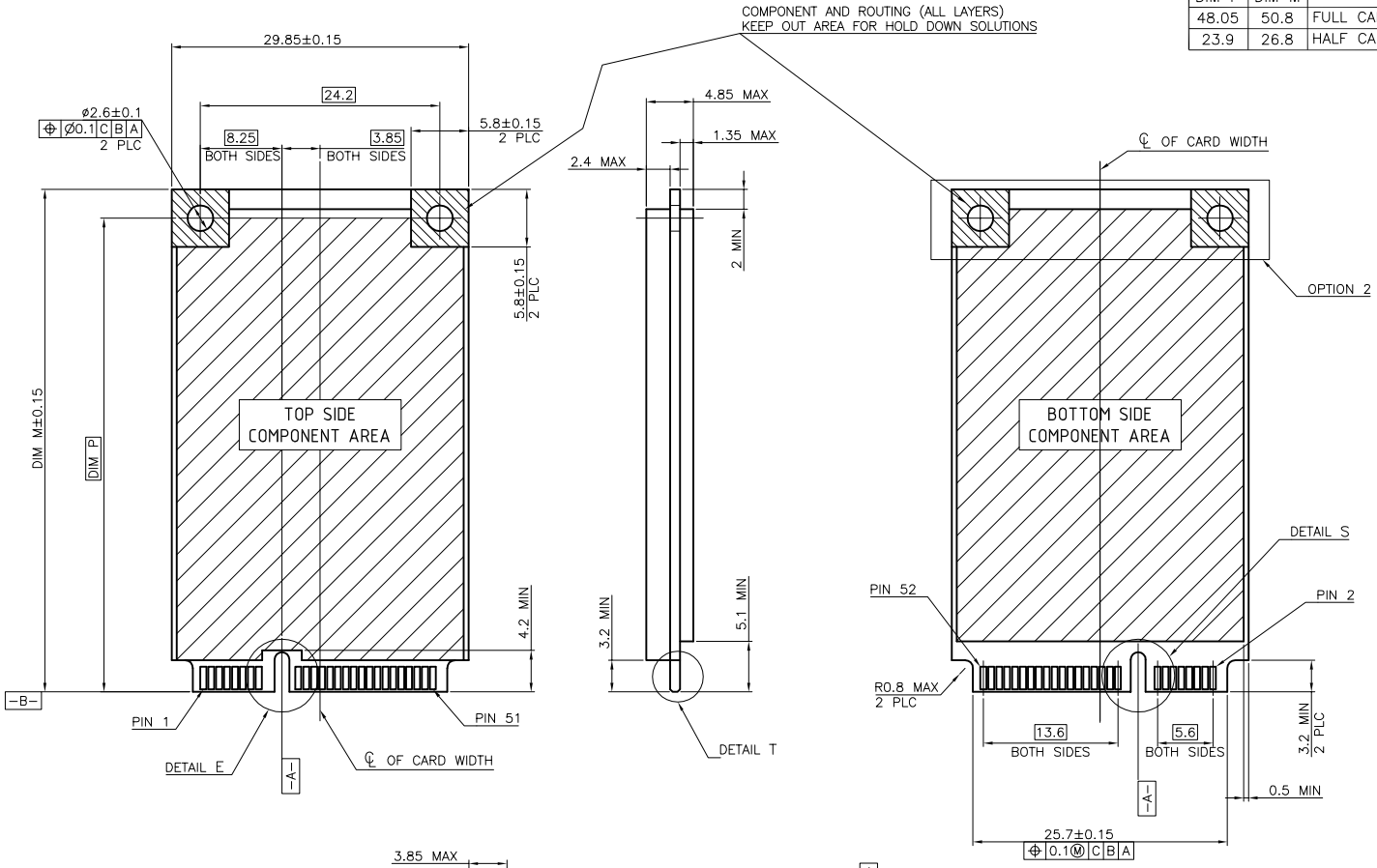
PDS: Rev :A STATUS:Released Printed: May 27, 2020

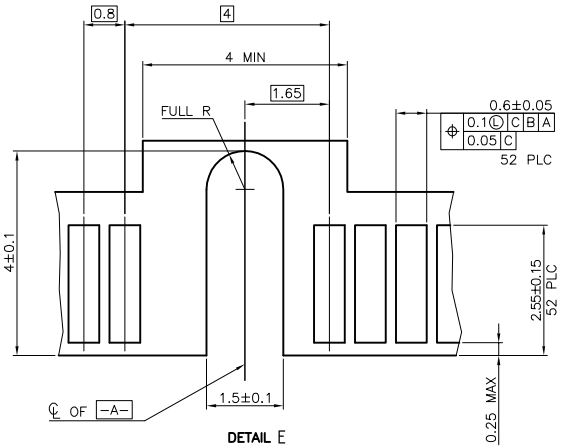
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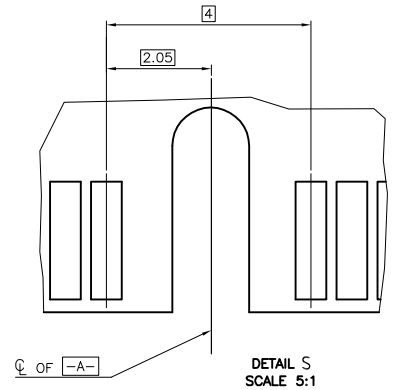
Amphenol FCi

DIM P	DIM M	
48.05	50.8	FULL CARD
23.9	26.8	HALF CARD

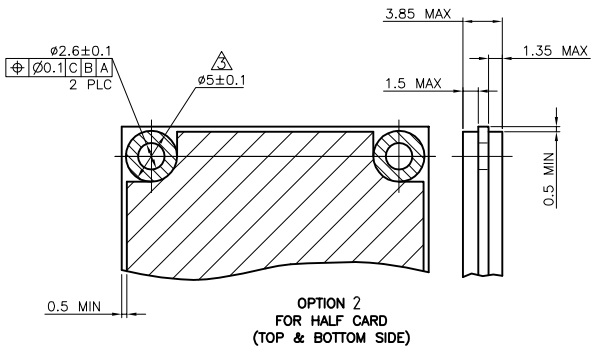




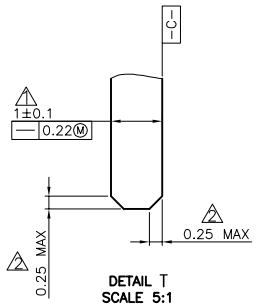
DETAIL E
SCALE 5:1
(TOP SIDE)



DETAIL S
SCALE 5:1
(BOTTOM SIDE)



OPTION 2
FOR HALF CARD
(TOP & BOTTOM SIDE)



DETAIL T
SCALE 5:1

NOTES:

1. CARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING AND/OR METALLIZATION.
2. EDGE BEVEL MUST BE PRESENT AND FREE OF CUTTING BURRS FROM PCB AND CONTACT MATERIALS.
3. COMPONENT AND ROUTING (TOP/BOTTOM LAYER) KEEP OUT AREA FOR HOLD DOWN SOLUTIONS.

FOR mSATA

mat'l. code				surface	tolerance	projection	product family
–				-	ASME_Y14.5		PCI_EXPRESS
ltr	ecn no	dr	date	tolerances unless otherwise specified			title
				angles	.0±.0.30	MM	MINI_PCIE
				linear	.00±.0.20		4.0MM_HEIGHT
				±2°	.000±.0.10	scale N/A	
				dr	WINSTON_ZHU 2020-05-12	Amphenol FCi	dwg no 10150657 sheet 5 of 5 size A4
				engr	ZHENHUA_LIU 2020-05-12		
				chr			type CUSTOMER Drawing
				appd	HEAVEN_CEN 2020-05-12		
sheet index	revision	A					
	sheet						

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