

NOTES:

1. MATERIAL:
HOUSING: LCP WITH 30% GF, UL94 V-0, BLACK COLOR.
CONTACTS: PHOSPHOR BRONZE.
PEGS: BRASS.
2. FINISH:
CONTACTS: (SEE TABLE) GOLD PLATED ON CONTACT AREA, GOLD FLASH ON SOLDER AREA, WITH ENTIRE CONTACT UNDERPLATED $1.27\mu\text{m}$ [$50\mu''$] MIN. NICKEL.
PEGS: $3.048\mu\text{m}$ [$120\mu''$] MIN. MATTE-TIN OVER $1.27\mu\text{m}$ [$50\mu''$] MIN. NICKEL.
3. REFLOW SOLDER CAPABLE TO 260° PER TEC-109-201, CONDITION B.

PCI-E MINI CARD CONNECTOR SIGNAL ASSIGNMENTS

PIN#	NAME	PIN#	NAME
51	Reserved	52	+3.3Vaux
49	Reserved	50	GND
47	Reserved	48	+1.5V
45	Reserved	46	LED_WPAN#
43	GND	44	LED_WLAN#
41	+3.3Vaux	42	LED_WWAN#
39	+3.3Vaux	40	GND
37	GND	38	USB_D+
35	GND	36	USB_D-
33	PETp0	34	GND
31	PETn0	32	SMB_DATA
29	GND	30	SMB_CLK
27	GND	28	+1.5V
25	PERp0	26	GND
23	PERn0	24	+3.3Vaux
21	GND	22	PERST#
19	Reserved* (UIM_C4)	20	W_DISABLE#
17	Reserved* (UIM_C8)	18	GND

mSATA CONNECTOR SIGNAL ASSIGNMENTS

PIN#	NAME	PIN#	NAME
51	Presence Defection	52	+3.3V
49	DA/DSS	50	GND
47	Vendor	48	+1.5V
45	Vendor	46	Reserved
43	No Connect	44	Reserved
41	+3.3V	42	Reserved
39	+3.3V	40	GND
37	GND	38	Reserved
35	GND	36	Reserved
33	+A	34	GND
31	-A	32	Two Wire Interface
29	GND	30	Two Wire Interface
27	GND	28	+1.5V
25	-B	26	GND
23	+B	24	+3.3V
21	GND	22	Reserved
19	Reserved	20	Reserved
17	Reserved	18	GND

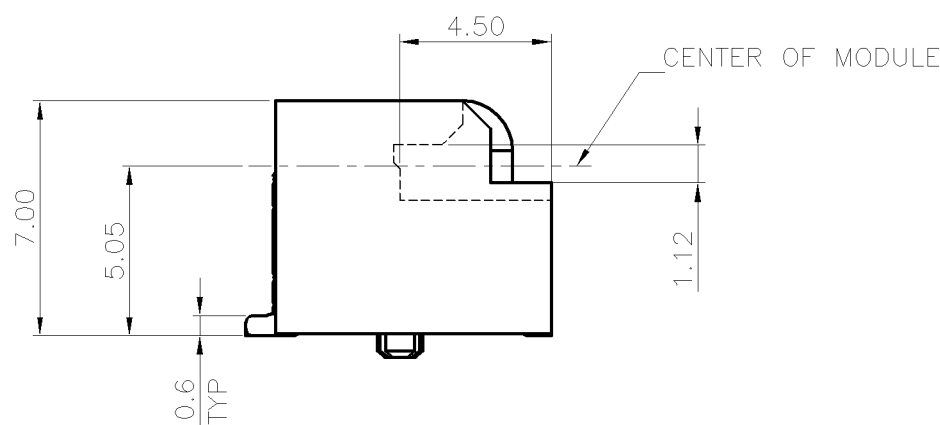
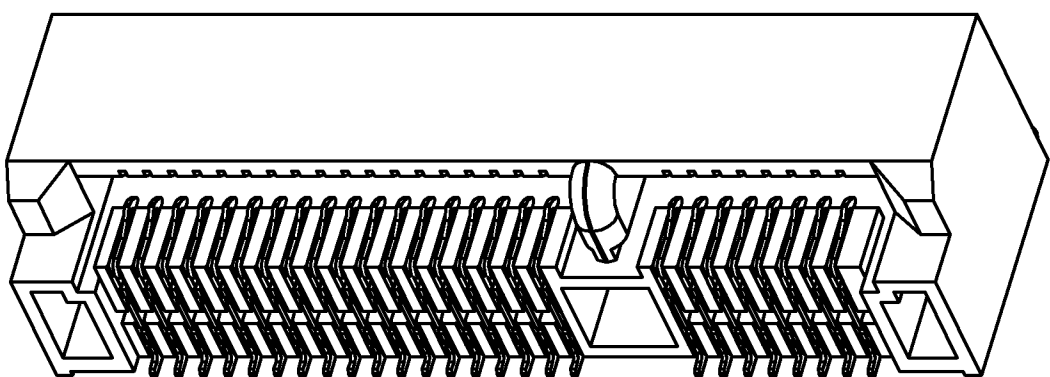
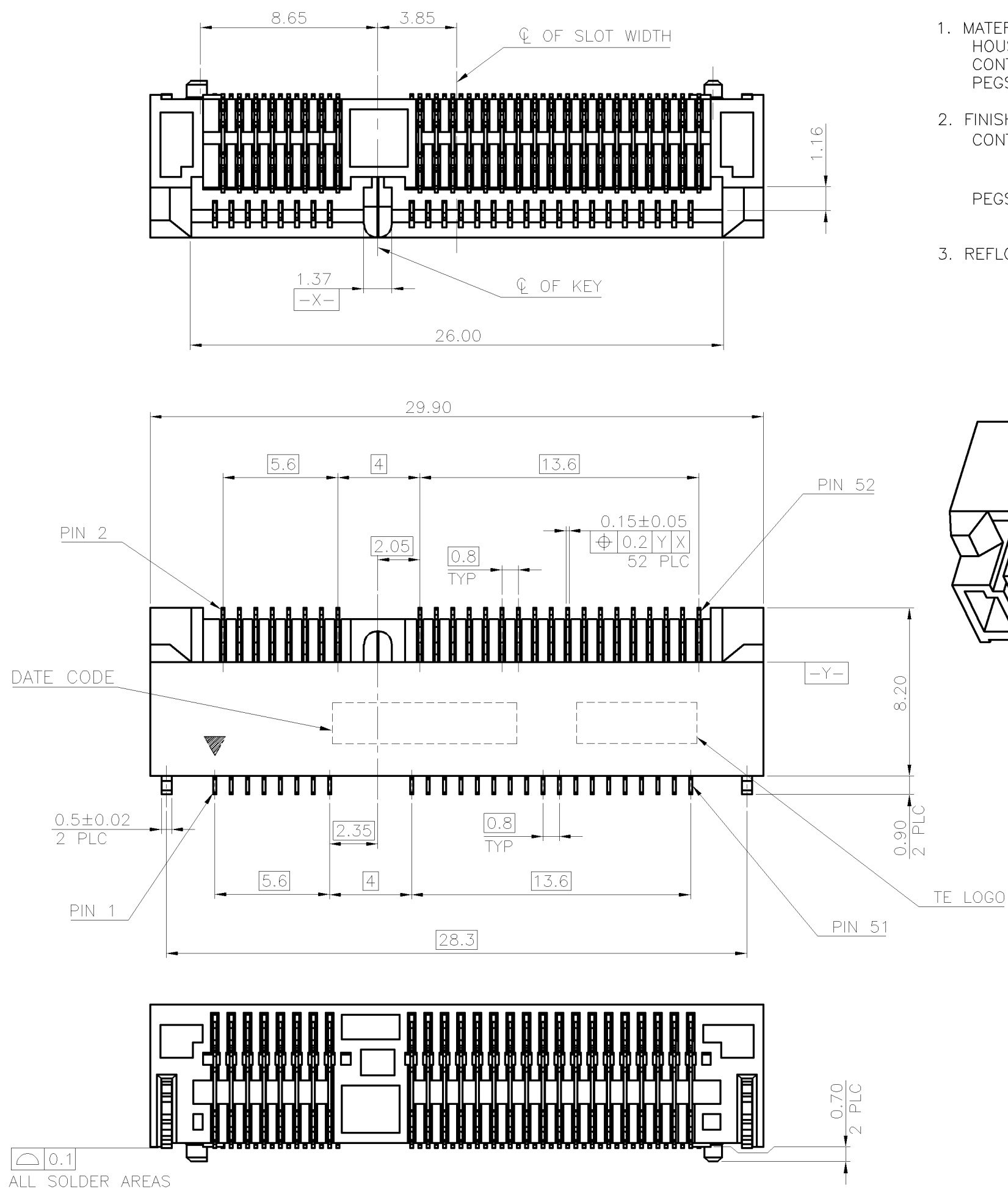
MECHANICAL KEY

15	GND	16	UIM_VPP
13	REFCLK+	14	UIM_RESET
11	REFCLK-	12	UIM_CLK
9	GND	10	UIM_DATA
7	CLKREQ#	8	UIM_PWR
5	COEX2	6	1.5V
3	COEX1	4	GND
1	WAKE#	2	3.3Vaux

* Reserved for future UIM interface (if needed)

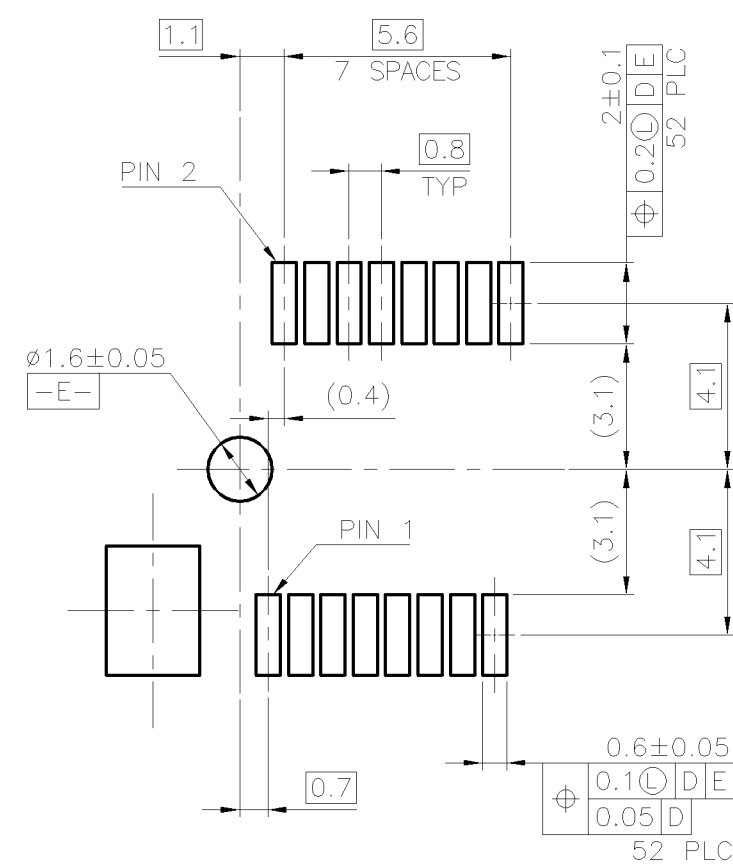
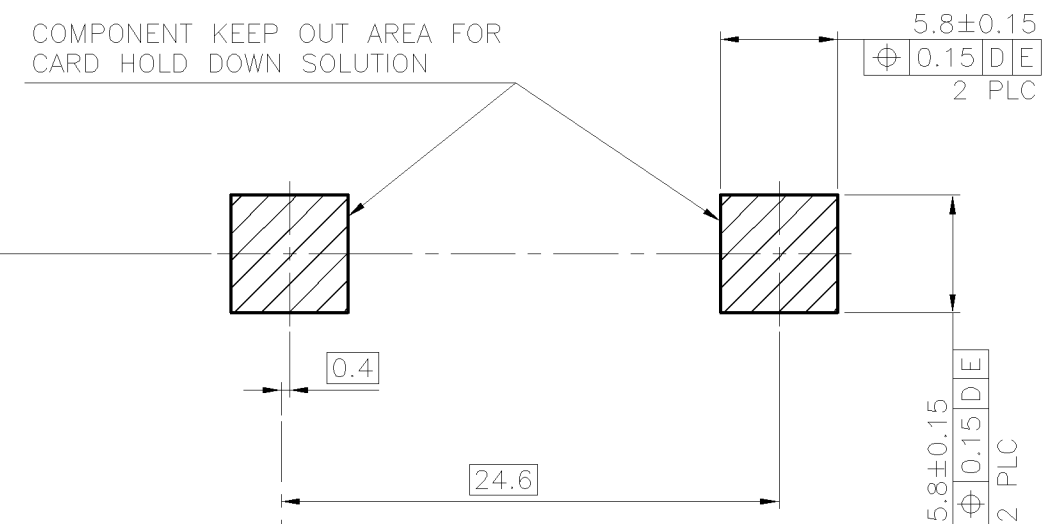
MECHANICAL KEY

15	GND	16	Reserved
13	Reserved	14	Reserved
11	Reserved	12	Reserved
9	GND	10	Reserved
7	Reserved	8	Reserved
5	Reserved	6	+1.5V
3	Reserved	4	GND
1	Reserved	2	+3.3V



RESTRICTED	GOLD FLASH	1759547-5
OBSOLETE	0.762μm [30μ"]	1759547-4
OBSOLETE	0.381μm [15μ"]	1759547-3
OBSOLETE	0.254μm [10μ"]	1759547-2
	GOLD FLASH	1759547-1
	MIN. GOLD THICKNESS	PART NUMBER

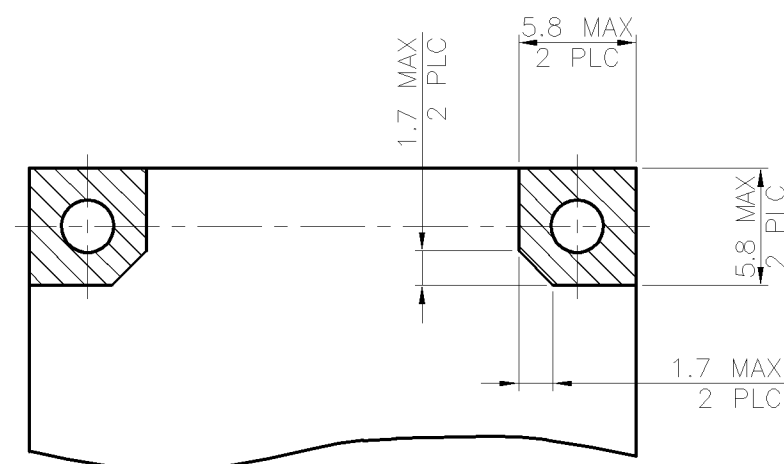
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN <u>A. WU</u> 01MAR2011 CHK <u>S. CHIEN</u> 01MAR2011 APVD <u>W. KODAMA</u> 01MAR2011		 TE Connectivity			
DIMENSIONS: MM		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± — 1 PLC ±0.3 2 PLC ±0.2 3 PLC ± — 4 PLC ± — ANGLES ± 3°		NAME 2 IN 1 mSATA & PCI EXPRESS MINI CARD CONNECTOR, 7 MM HEIGHT			
		PRODUCT SPEC 108-99102 APPLICATION SPEC —					
MATERIAL		FINISH		SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
SEE NOTE		SEE NOTE		WEIGHT	A2	00779	C-1759547 —
CUSTOMER DRAWING				SCALE	SHEET 1 of 5		REV G

[illegible]

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

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN		 TE Connectivity	
		CHK			
DIMENSIONS:		APVD		NAME	
MM		PRODUCT SPEC		2 IN 1 mSATA & PCI EXPRESS MINI CARD CONNECTOR, 7 MM HEIGHT	
		APPLICATION SPEC			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		WEIGHT		SIZE	CAGE CODE
0 PLC ± — 1 PLC ± — 2 PLC ± — 3 PLC ± — 4 PLC ± — ANGLES ± —		—		A2	00779
MATERIAL		CUSTOMER DRAWING		DRAWING NO	RESTRICTED TO
FINISH				C-1759547	—
				SCALE	SHEET
				—	2 of 5
				REV	G

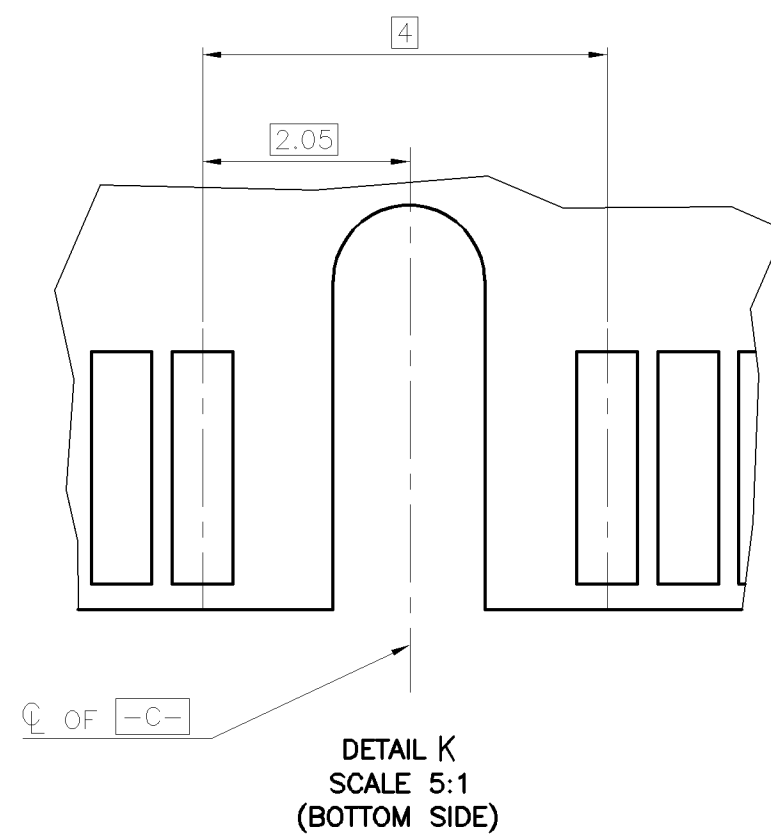


OPTION 1
FOR HALF-MINI CARD
(TOP & BOTTOM SIDE)

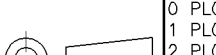
NOTES:

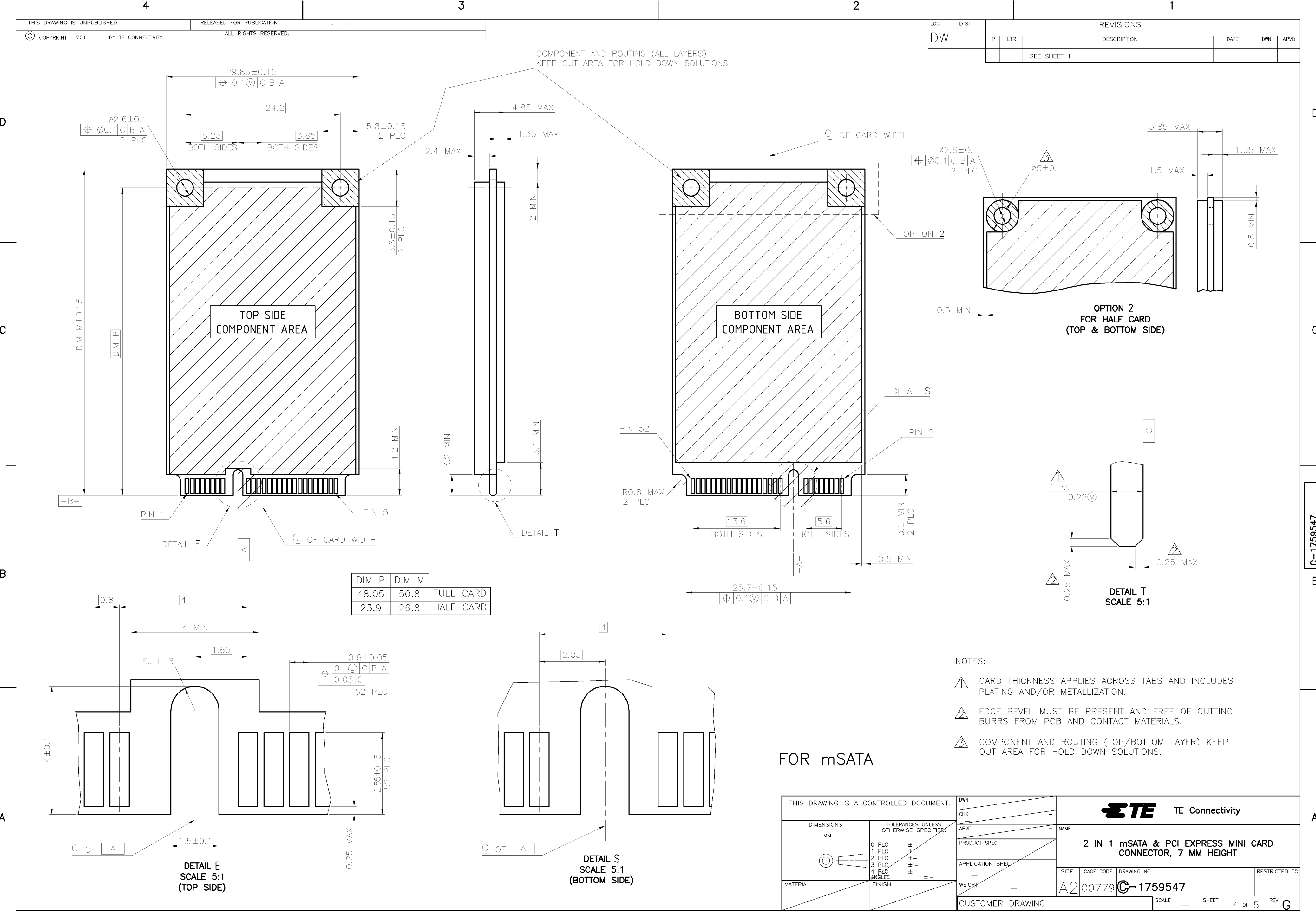
 CARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING AND/OR METALLIZATION.

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



FOR PCI EXPRESS MINI CARD

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN		 TE Connectivity			
		CHK					
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		2 IN 1 mSATA & PCI EXPRESS MINI CARD CONNECTOR, 7 MM HEIGHT			
MM		APVD				NAME	
		PRODUCT SPEC					
0 PLC ± — 1 PLC ± — 2 PLC ± — 3 PLC ± — 4 PLC ± — ANGLES ± —		APPLICATION SPEC					
MATERIAL		FINISH		SIZE			
		WEIGHT		CAGE CODE			
				DRAWING NO			
				RESTRICTED TO			
		CUSTOMER DRAWING		SCALE			
				SHEET			
				3 of 5			
				REV			
				G			



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

FOR mSATA

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	-	
DIMENSIONS: MM		CHK	-	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	-	
0 PLC ±		PRODUCT SPEC	-	
1 PLC ±		APPLICATION SPEC	-	
2 PLC ±		WEIGHT	-	
3 PLC ±		CUSTOMER DRAWING	-	
4 PLC ±		SCALE	-	
ANGLES ±		SHEET	4 OF 5	
FINISH		REV	G	

NAME		2 IN 1 mSATA & PCI EXPRESS MINI CARD CONNECTOR, 7 MM HEIGHT	
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A2	00779	C=1759547	-

