

| REVISIONS | | | | | |
|-----------|-----|---------------------------|---------|-----|------|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | J | REVISED PER ECR-18-012242 | 20AUG18 | DZ | SL |

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 1.27μm [50μ"] MIN. NICKEL.
PEGS: 3.048μm [120μ"] MIN. MATTE-TIN OVER 1.27μm [50μ"] MIN. NICKEL.
3. REFLOW SOLDER CAPABLE TO 260° PER TEC-109-201, CONDITION B.

PCI-E MINI CARD CONNECTOR
SIGNAL ASSIGNMENTS

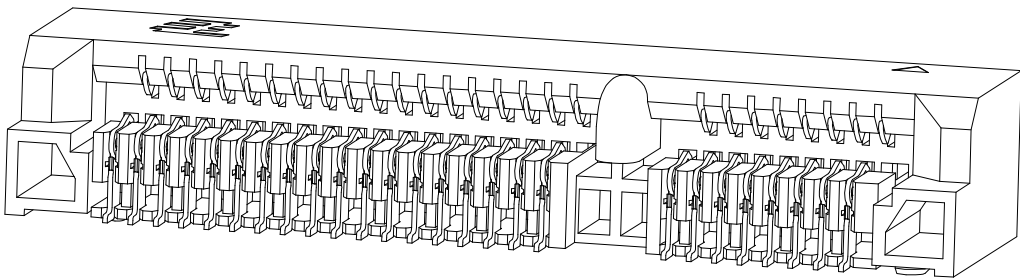
| PIN# | NAME | PIN# | NAME |
|----------------|-----------------------|------|------------|
| 51 | Reserved | 52 | +3.3Vaux |
| 49 | Reserved | 50 | GND |
| 47 | Reserved | 48 | +1.5V |
| 45 | Reserved | 46 | LED_WPAN# |
| 43 | GND | 44 | LED_WLAN# |
| 41 | +3.3Vaux | 42 | LED_WWAN# |
| 39 | +3.3Vaux | 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 |
| 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)

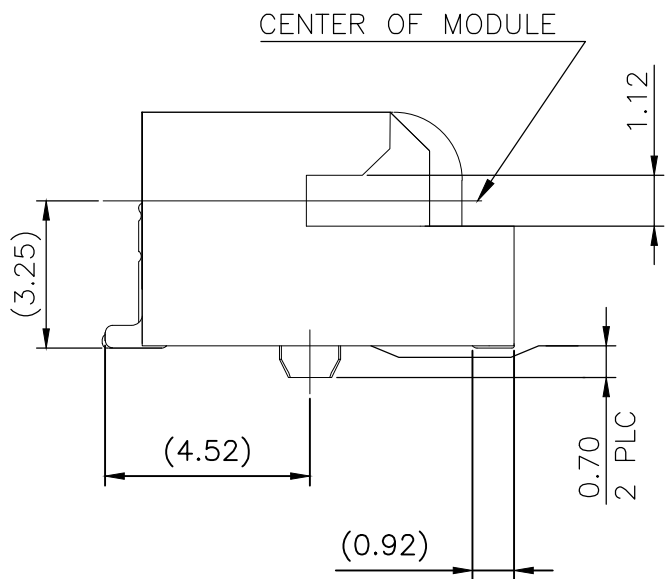
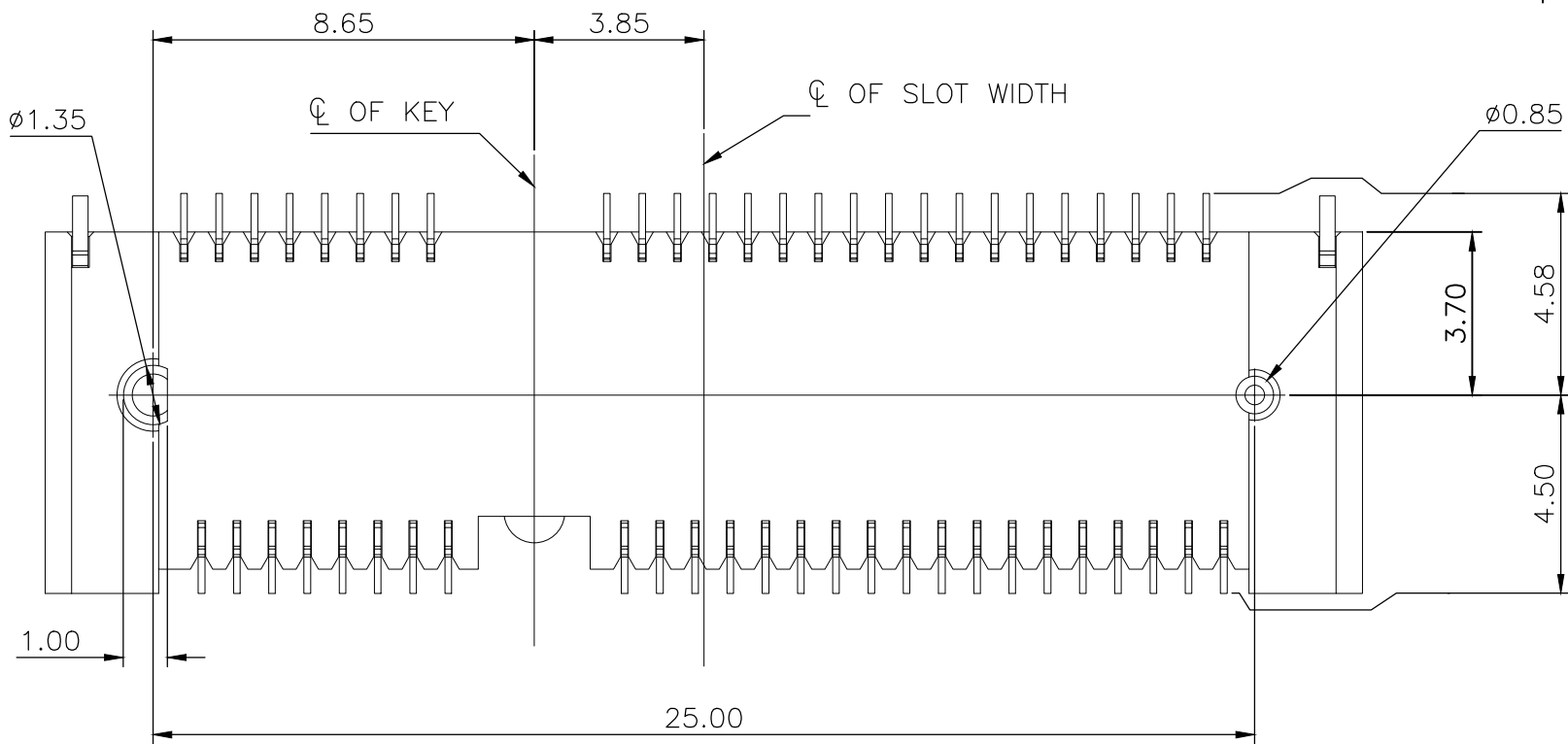
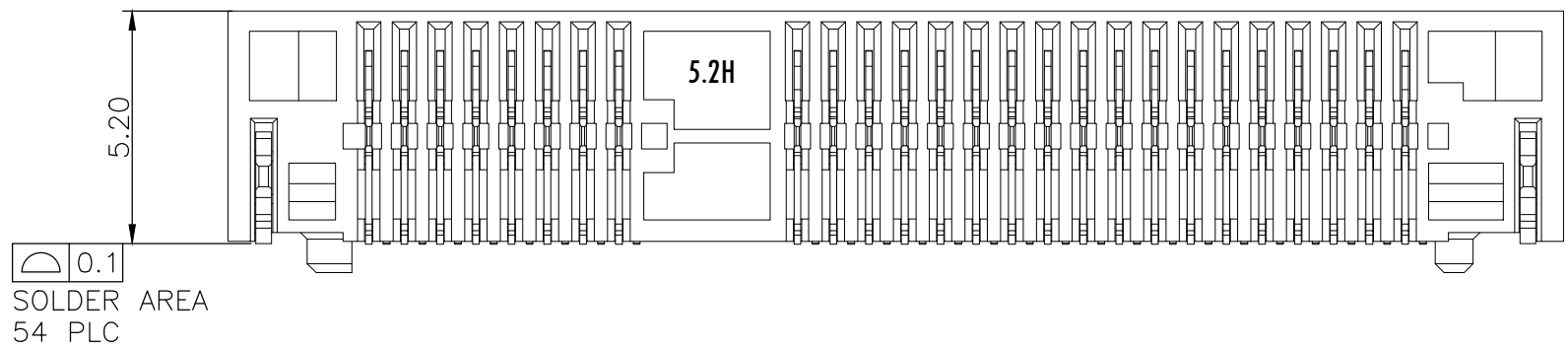
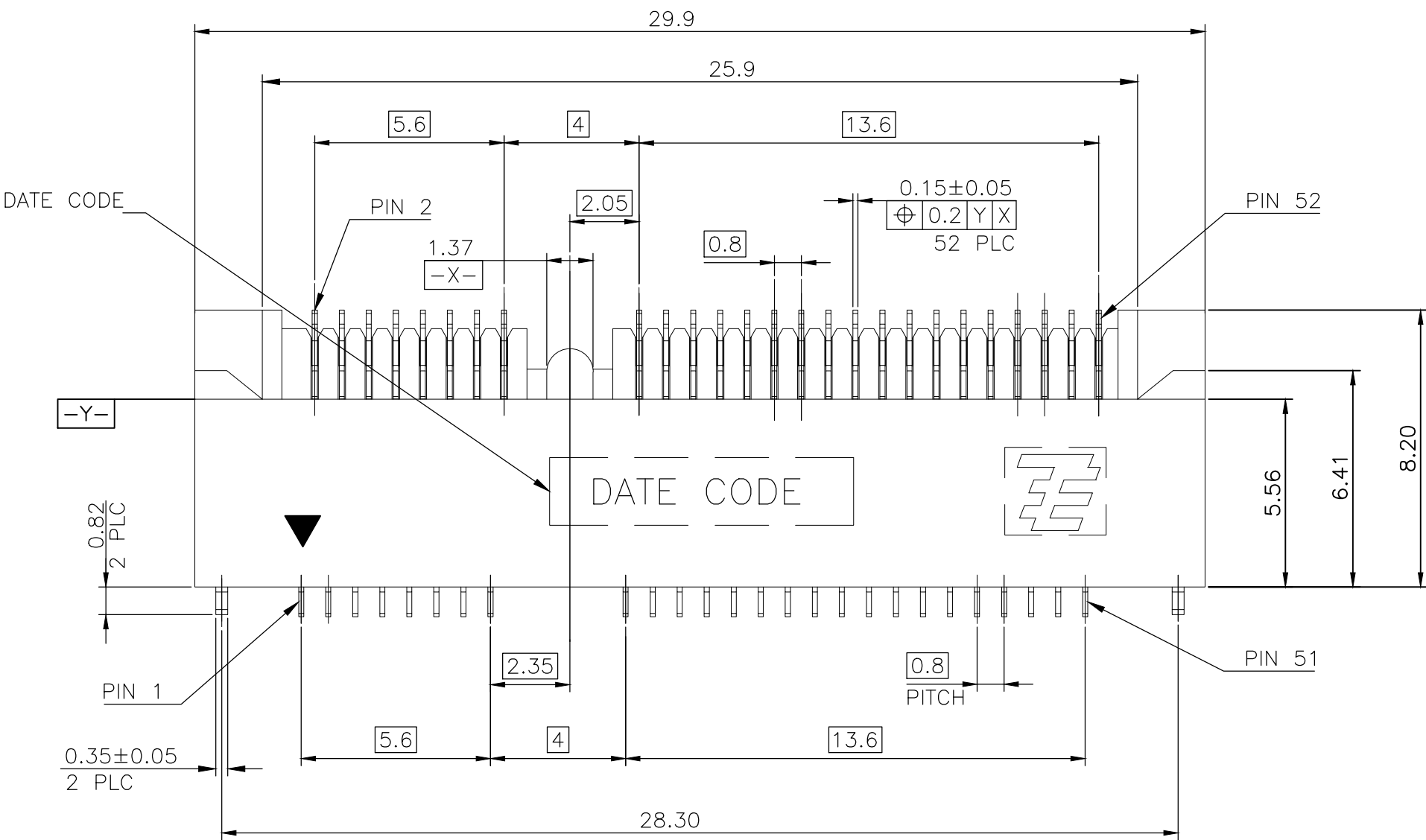
mSATA CONNECTOR
SIGNAL ASSIGNMENTS

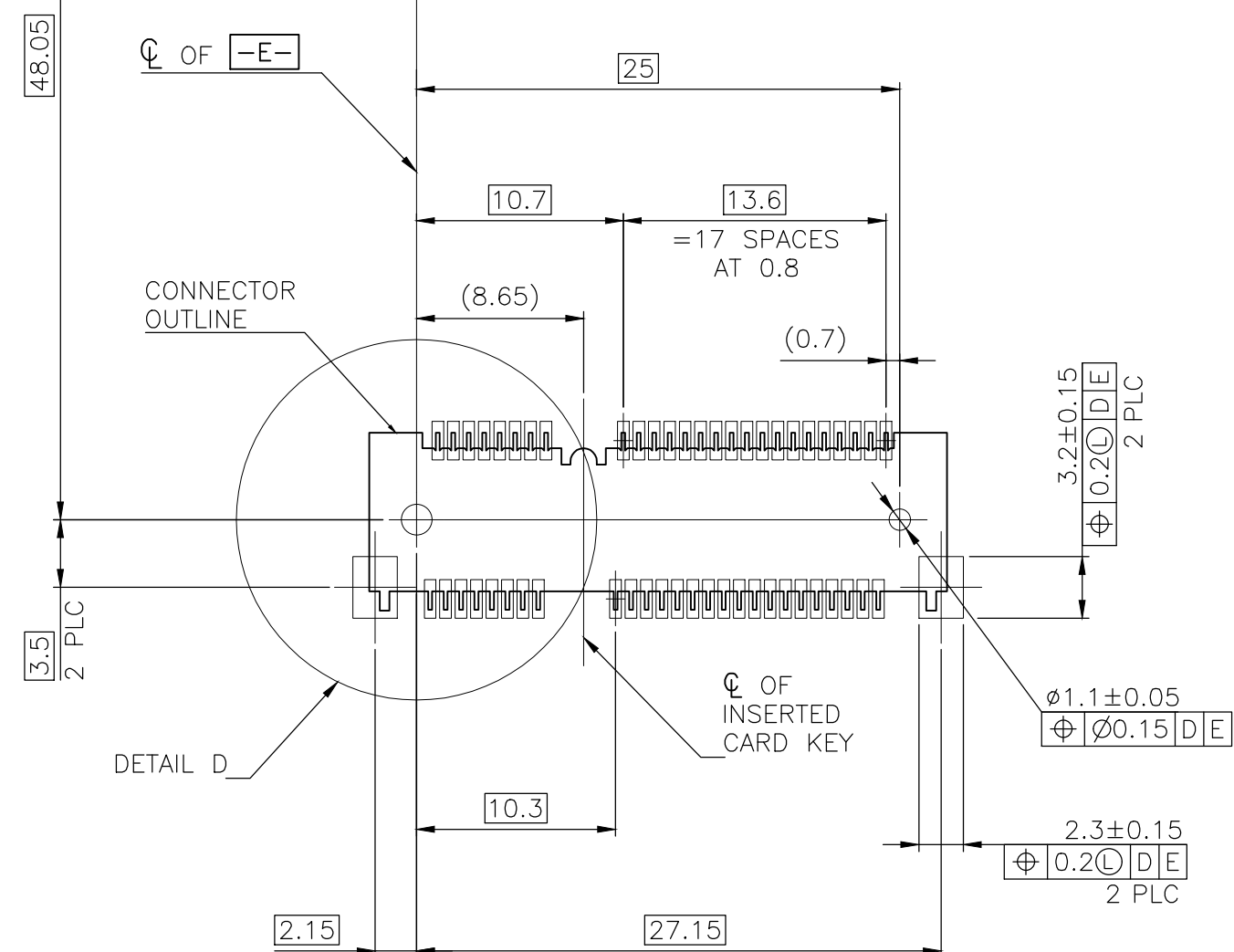
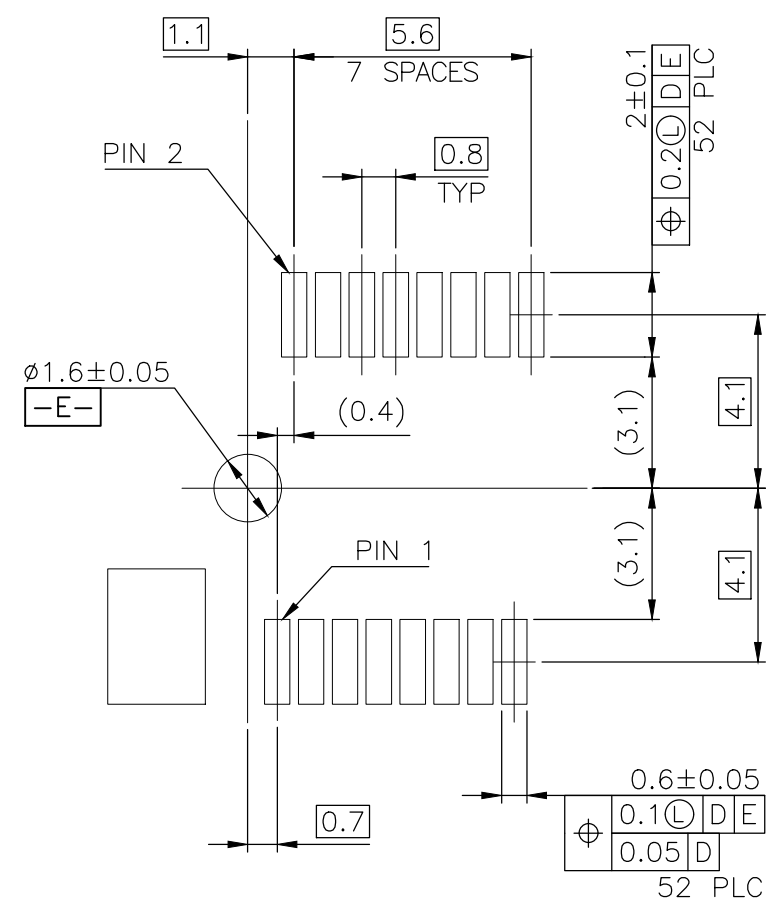
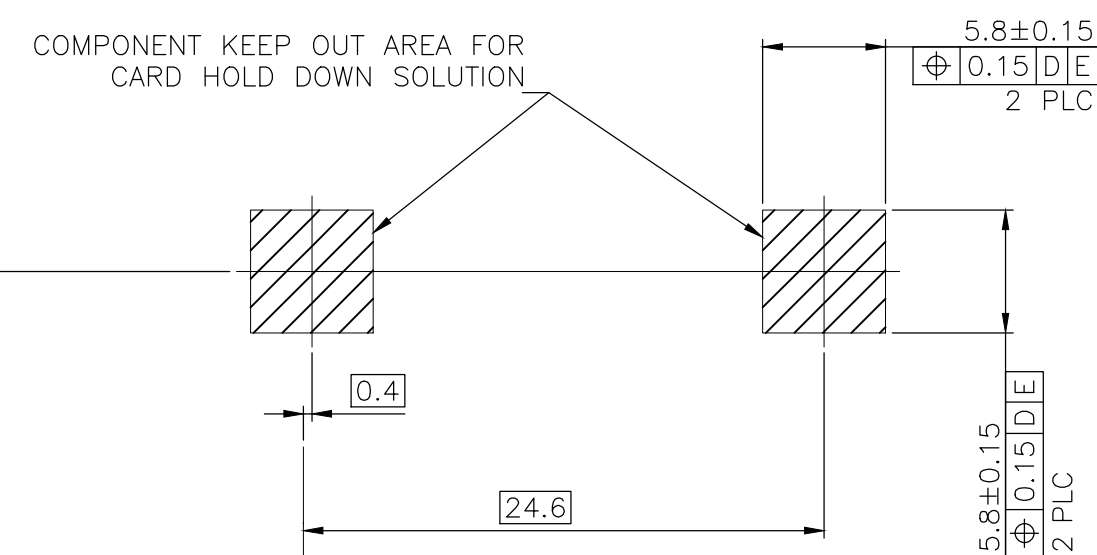
| PIN# | NAME | PIN# | NAME |
|----------------|--------------------|------|--------------------|
| 51 | Presence Detection | 52 | +3.3V |
| 49 | DA/DSS | 50 | GND |
| 47 | Vendor | 48 | +1.5V |
| 45 | Vendor | 46 | Reserved |
| 43 | No Connect | 44 | Reserved |
| 41 | +3.3V | 42 | Reserved |
| 39 | +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 | 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 |

| | | | |
|----------|--------------|---------------------|-------------|
| OBSOLETE | TYPE II | GOLD FLASH | 1-1775862-2 |
| OBSOLETE | | 0.254μm [10μ"] | 1-1775862-1 |
| OBSOLETE | TYPE I | 0.127μm [5μ"] | 1775862-4 |
| OBSOLETE | | GOLD FLASH | 1775862-2 |
| OBSOLETE | PACKING TYPE | 0.254μm [10μ"] | 1775862-1 |
| | | MIN. GOLD THICKNESS | PART NUMBER |


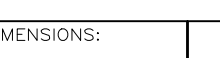


| | | | | | | | | | | | | | | | |
|---|--|--|-----------|---|--|-----------|--|------------|--|---------------|--|-----------------|--|----------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN A. WU | 02APR2009 |  TE Connectivity | | | | | | | | | | | |
| | | CHK S. CHIEN | 02APR2009 | | | | | | | | | | | | |
| DIMENSIONS: mm | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | | NAME 2 IN 1 mSATA & PCI EXPRESS MINI CARD CONNECTOR, 5.2 MM HEIGHT | | | | | | | | | | | |
|  | | APVD W. KODAMA | | | | | | NAME | | | | | | | |
| | | 02APR2009 | | | | | | | | | | | | | |
| | | PRODUCT SPEC 108-99102 | | | | | | | | | | | | | |
| | | APPLICATION SPEC — | | SIZE | | CAGE CODE | | DRAWING NO | | RESTRICTED TO | | | | | |
| MATERIAL | | FINISH | | WEIGHT 1.54 GRAMS | | A2 | | 00779 | | C=1775862 | | — | | | |
| SEE NOTE | | SEE NOTE | | CUSTOMER DRAWING | | | | | | SCALE — | | SHEET 1 of 5 | | REV J | |





—D— IS THE TOP SURFACE OF PCB.
RECOMMENDED P.C. BOARD PATTERN LAYOUT
 FOR FULL CARD CONNECTOR
 (TOP VIEW)

| | | | | | | | |
|---|--|--|--|---|--|--------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN — 02JUN2016 | |  TE Connectivity | | | |
| DIMENSIONS: mm | | CHK — | | | | | |
|  | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | | NAME 2 IN 1 mSATA & PCI EXPRESS MINI CARD CONNECTOR, 5.2 MM HEIGHT | | | |
| | | 0 PLC ± — | | | | | |
| | | 1 PLC ± — | | | | | |
| | | 2 PLC ± — | | | | | |
| 3 PLC ± — | | APVD — | | SIZE A2 | | | |
| 4 PLC ± — | | PRODUCT SPEC — | | | | | |
| ANGLES ± — | | APPLICATION SPEC — | | | | | |
| MATERIAL — | | FINISH — | | | | CAGE CODE 00779 | |
| | | WEIGHT — | | DRAWING NO G-1775862 | | | |
| | | CUSTOMER DRAWING | | | | RESTRICTED TO — | |
| | | | | | | SCALE — | |
| | | | | | | SHEET 2 of 5 | |
| | | | | | | REV J | |

| REVISIONS | | | | | |
|-----------|-----|-------------|------|-----|------|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | — | SEE SHEET 1 | — | — | — |

D

C

B

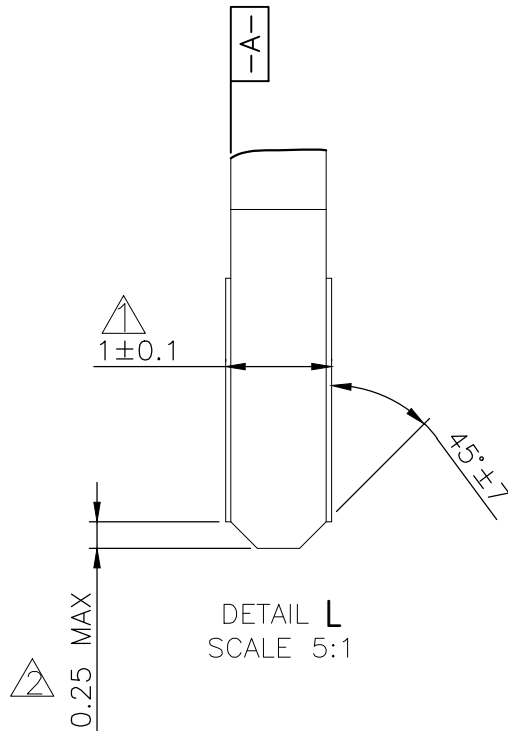
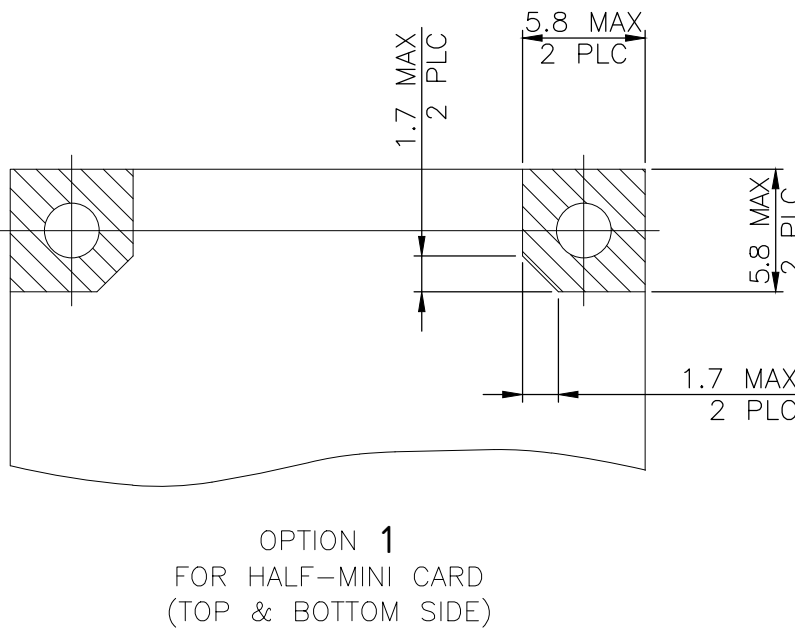
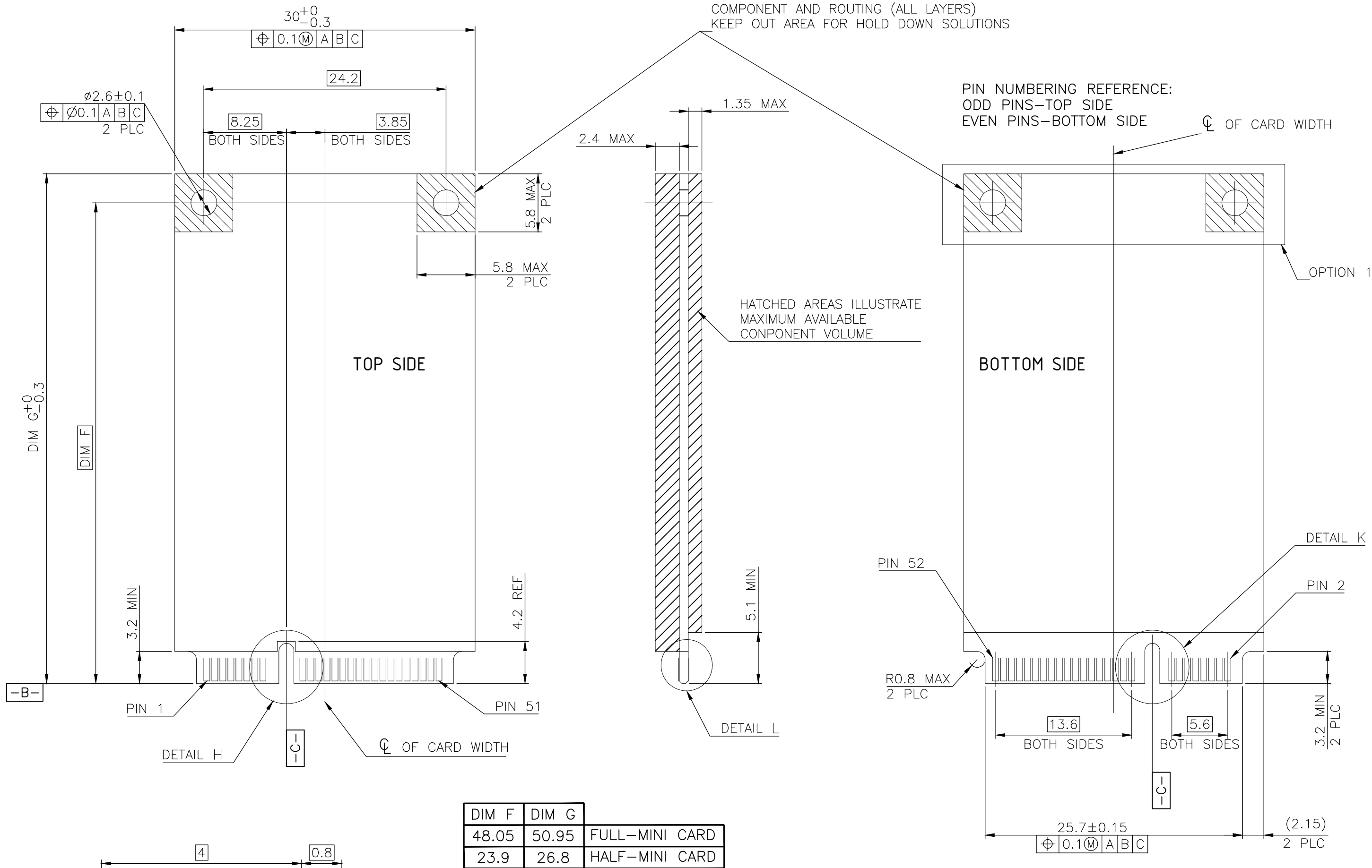
A

D

C

B

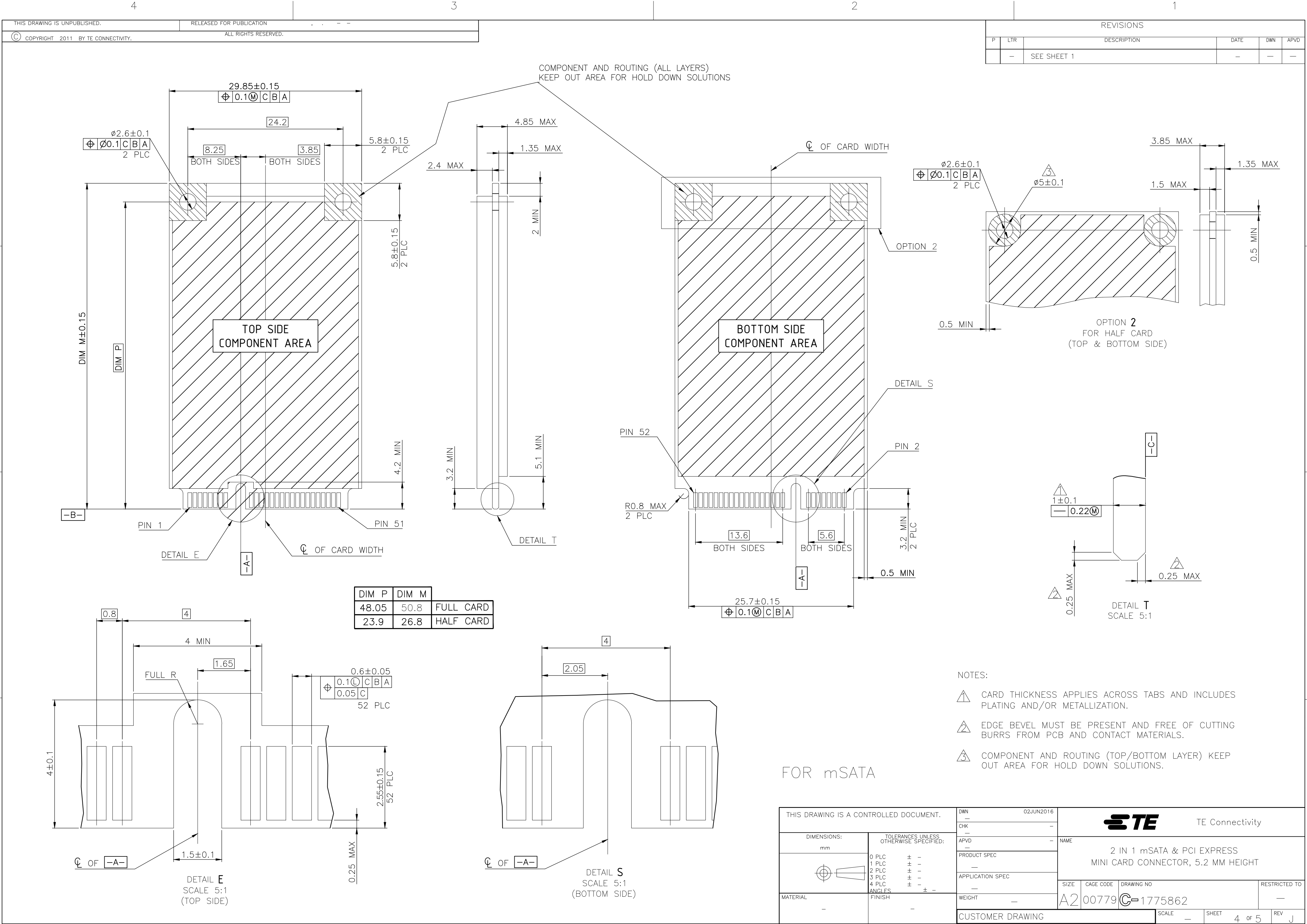
A



- 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 | 02JUN2016 | TE Connectivity | |
| | | CHK | — | | |
| DIMENSIONS: | | APVD | — | NAME | |
| mm | | PRODUCT SPEC | — | | |
| | | APPLICATION SPEC | — | SIZE | |
| | | WEIGHT | — | | |
| MATERIAL | | FINISH | — | CAGE CODE | DRAWING NO |
| | | | | A2 00779 | C=1775862 |
| | | CUSTOMER DRAWING | | SCALE | SHEET |
| | | | | — | 3 OF 5 |
| | | | | REV | J |



| REVISIONS | | | | | |
|-----------|-----|-------------|------|-----|------|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| - | - | SEE SHEET 1 | - | - | - |

- 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.

| | | | | | |
|--|--|------------------|-----------|---|---------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN | 02JUN2016 | TE Connectivity | |
| DIMENSIONS: mm | | CHK | - | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | APVD | - | NAME | |
| 0 PLC ± - | | PRODUCT SPEC | - | 2 IN 1 mSATA & PCI EXPRESS MINI CARD CONNECTOR, 5.2 MM HEIGHT | |
| 1 PLC ± - | | APPLICATION SPEC | - | | |
| 2 PLC ± - | | WEIGHT | - | SIZE | CAGE CODE |
| 3 PLC ± - | | CUSTOMER DRAWING | | A2 | 00779 |
| 4 PLC ± - | | SCALE | - | DRAWING NO | RESTRICTED TO |
| ANGLES ± - | | SHEET | 4 of 5 | C-1775862 | - |
| FINISH | | REV | J | | |

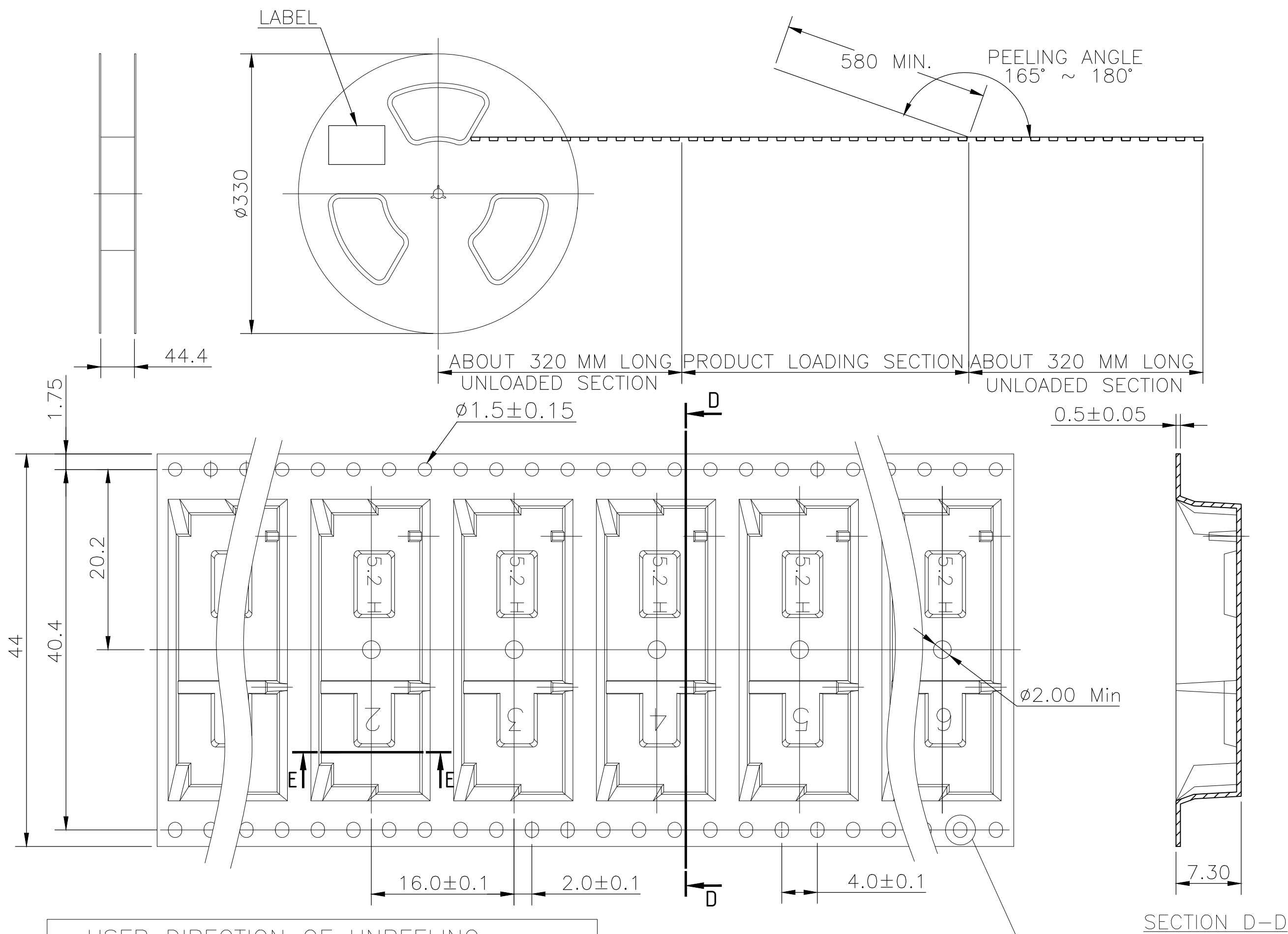
| REVISIONS | | | | | |
|-----------|-----|-------------|------|-----|------|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| — | — | SEE SHEET 1 | — | — | — |

D

C

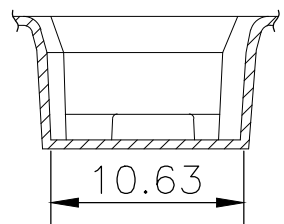
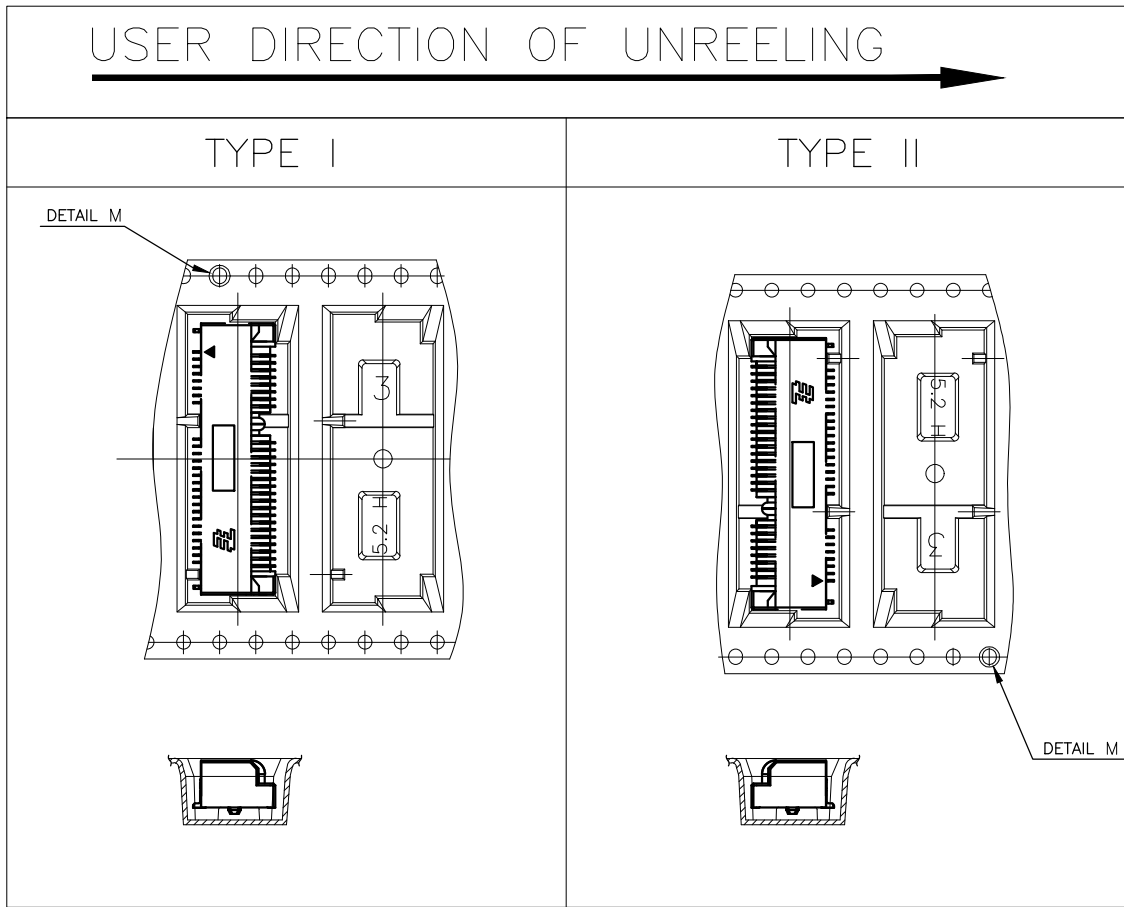
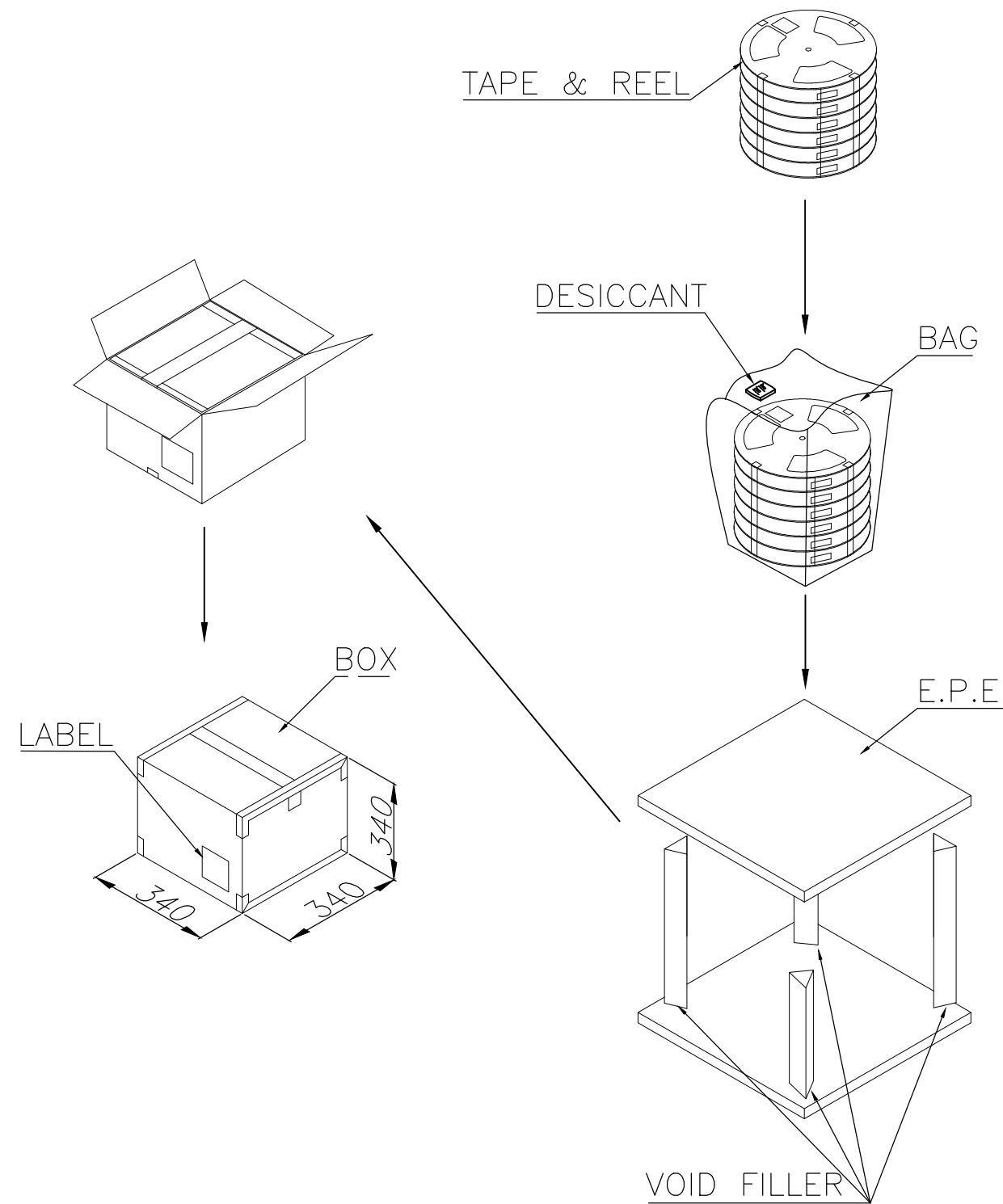
B

A

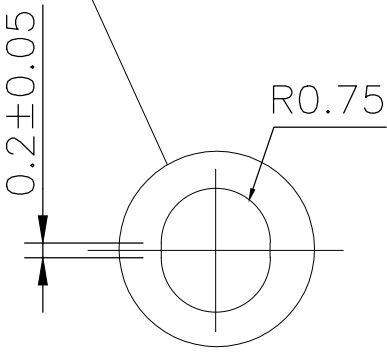


NOTES:

- MATERIAL:
BOX: FIBREBOARD, CORRUGATED, DOUBLE WALL.
COVER TAPE: POLYSTYRENES, TRANSPARENT COLOR.
CARRIER TAPE: POLYSTYRENES, TRANSPARENT COLOR.
REEL: HIPS, BLUE COLOR.
BAG: POLYETHYLENES, TRANSPARENT COLOR.
- EACH BAG SHALL BE INCLUDED DESICCANT.
- PEELING STRENGTH: 0.1 ~ 1.3 N (10 ~ 130 GRAMS).
- PEELING SPEED: 300 mm/min.


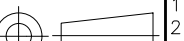


SECTION E-E



DETAIL M
SCALE 4:1

SECTION D-D

| | | | | | | | | |
|---|--|---|-----------|--|---------------|-----------------|-----------|----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN — | 02JUN2016 | <div></div> TE Connectivity | | | | |
| | | CHK — | — | | | | | |
| DIMENSIONS: mm | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | | NAME 2 IN 1 mSATA & PCI EXPRESS MINI CARD CONNECTOR, 5.2 MM HEIGHT | | | | |
|  | | APVD — | — | | | | | |
| | | PRODUCT SPEC — | | | | | | |
| | | APPLICATION SPEC — | | | | | | |
| | | SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO | | | |
| MATERIAL — | | FINISH — | | WEIGHT — | A2 | 00779 | C=1775862 | — |
| CUSTOMER DRAWING | | | | SCALE — | | SHEET 5 of 5 | | REV J |

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