

## Stand Off/Isolation Pads

ATP offers a wide variety of Stand Off/Isolation Pads to aid our customers in their hybrid assembly processing. Stand Offs and Isolation Pads can be used in a variety of ways depending on the metal scheme ordered. They can be used as a capacitive standoff, component mounting isolation pad, landing pads to reduce bond wire and DC bias wire lengths, gap pedestals for aligning component heights and many other useful configurations.

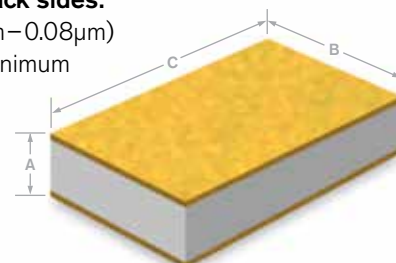
Note: ATP's Stand-Off/Isolation Pads are off the shelf quick turn parts inspected to our commercial grade inspection criteria (WSS71-02). If a tighter inspection criteria is required then please let ATP Sales know at the time of quoting.

Note: On occasion these parts may exhibit burrs by design and no burrs is required, then please contact ATP Sales for a custom solution.

**Material:** Asfired Alumina 99.6% and Aluminum Nitride is available.

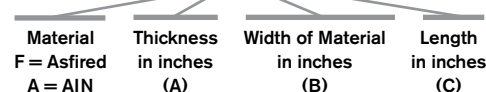
**Metallization front and back sides:**  
 TiW = 300–800Å (0.03µm–0.08µm)  
 Au = 120µ" (3 microns) minimum

**Delivery:** 24–48 hours  
 (in-stock lengths only)



### ATP Standoffs Parts List

Part number definition = ATPS-M-TTT-WWW-LLL

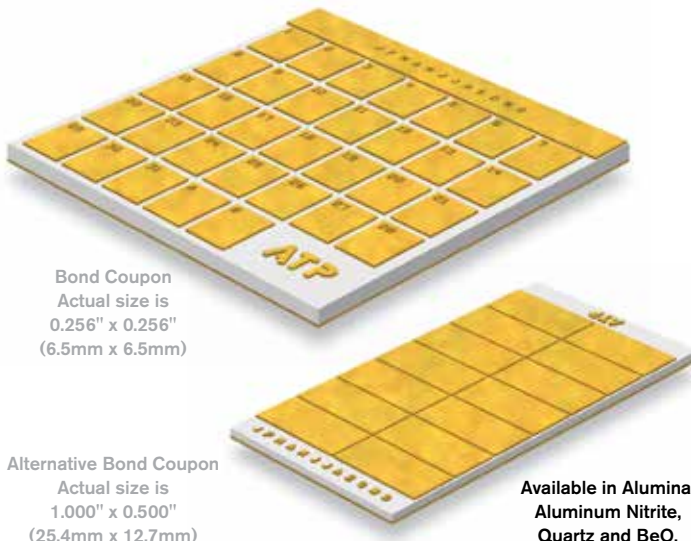


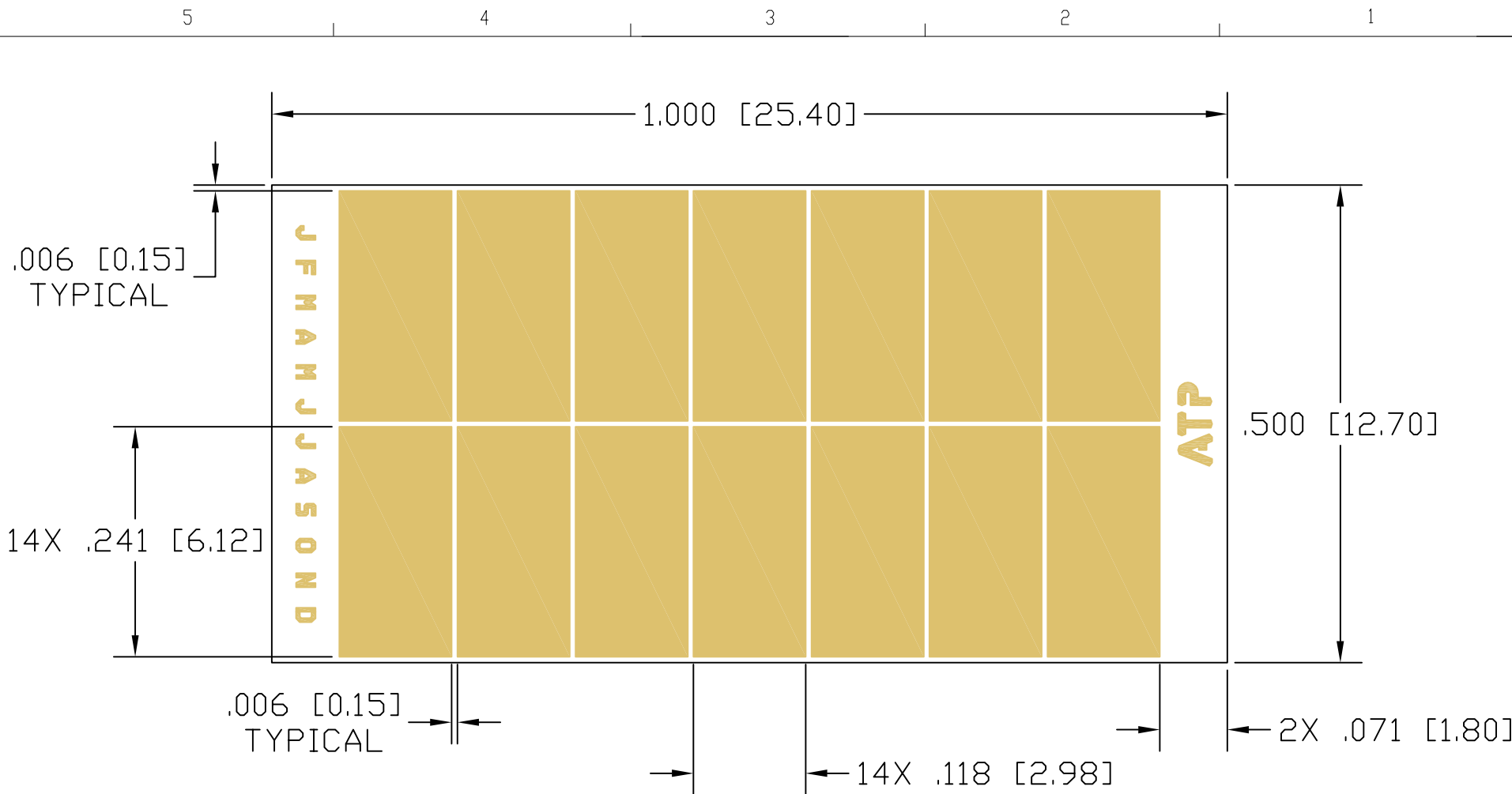
| ATP Part Number    | Thickness (A)   | Width (B)       | Length (C)      |
|--------------------|-----------------|-----------------|-----------------|
| ATPS-F-005-010-010 | 0.005"(0.127mm) | 0.010"(0.254mm) | 0.010"(0.254mm) |
| ATPS-F-005-015-015 | 0.005"(0.127mm) | 0.015"(0.381mm) | 0.015"(0.381mm) |
| ATPS-F-005-020-020 | 0.005"(0.127mm) | 0.020"(0.508mm) | 0.020"(0.508mm) |
| ATPS-F-005-025-025 | 0.005"(0.127mm) | 0.025"(0.635mm) | 0.025"(0.635mm) |
| ATPS-F-010-010-010 | 0.010"(0.254mm) | 0.010"(0.254mm) | 0.010"(0.254mm) |
| ATPS-F-010-015-015 | 0.010"(0.254mm) | 0.015"(0.381mm) | 0.015"(0.381mm) |
| ATPS-F-010-020-020 | 0.010"(0.254mm) | 0.020"(0.508mm) | 0.020"(0.508mm) |
| ATPS-F-010-025-025 | 0.010"(0.254mm) | 0.025"(0.635mm) | 0.025"(0.635mm) |
| ATPS-F-015-010-010 | 0.015"(0.381mm) | 0.010"(0.254mm) | 0.010"(0.254mm) |
| ATPS-F-015-015-015 | 0.015"(0.381mm) | 0.015"(0.381mm) | 0.015"(0.381mm) |

| ATP Part Number    | Thickness (A)   | Width (B)       | Length (C)      |
|--------------------|-----------------|-----------------|-----------------|
| ATPS-F-015-020-020 | 0.015"(0.381mm) | 0.020"(0.508mm) | 0.020"(0.508mm) |
| ATPS-F-015-025-025 | 0.015"(0.381mm) | 0.025"(0.635mm) | 0.025"(0.635mm) |
| ATPS-F-020-010-010 | 0.020"(0.508mm) | 0.010"(0.254mm) | 0.010"(0.254mm) |
| ATPS-F-020-015-015 | 0.020"(0.508mm) | 0.015"(0.381mm) | 0.015"(0.381mm) |
| ATPS-F-020-020-020 | 0.020"(0.508mm) | 0.020"(0.508mm) | 0.020"(0.508mm) |
| ATPS-F-020-025-025 | 0.020"(0.508mm) | 0.025"(0.635mm) | 0.025"(0.635mm) |
| ATPS-F-025-010-010 | 0.025"(0.635mm) | 0.010"(0.254mm) | 0.010"(0.254mm) |
| ATPS-F-025-015-015 | 0.025"(0.635mm) | 0.015"(0.381mm) | 0.015"(0.381mm) |
| ATPS-F-025-020-020 | 0.025"(0.635mm) | 0.020"(0.508mm) | 0.020"(0.508mm) |
| ATPS-F-025-025-025 | 0.025"(0.635mm) | 0.025"(0.635mm) | 0.025"(0.635mm) |

## ATP Bond Qualification Coupons

This is a unique, *cost-effective* tool offered by ATP to aid our customers in the daily bond pull qualification required by mil-883 hybrid assemblies. The coupon gives you a platform that allows you to organize and track your bond pulls on a daily and monthly basis. The coupon is designed as a calendar to maintain daily through monthly test results of each bonder on your assembly line. Each pad maintains the bond pulls done on a daily basis and allows you to add each day a new set of bonds throughout the month. The coupon allows you the ability to mark or scribe specific information on it such as the month samples are from and which bonder they were performed on. This is a great tool to organize and retain bond pull information throughout the year and, along with your daily logs, it puts audit and recall data at your fingertips in an organized fashion.

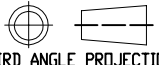




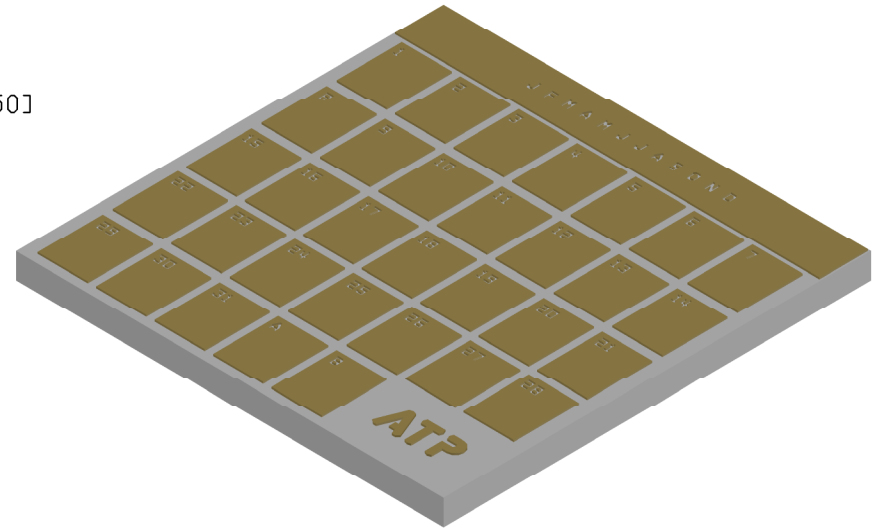
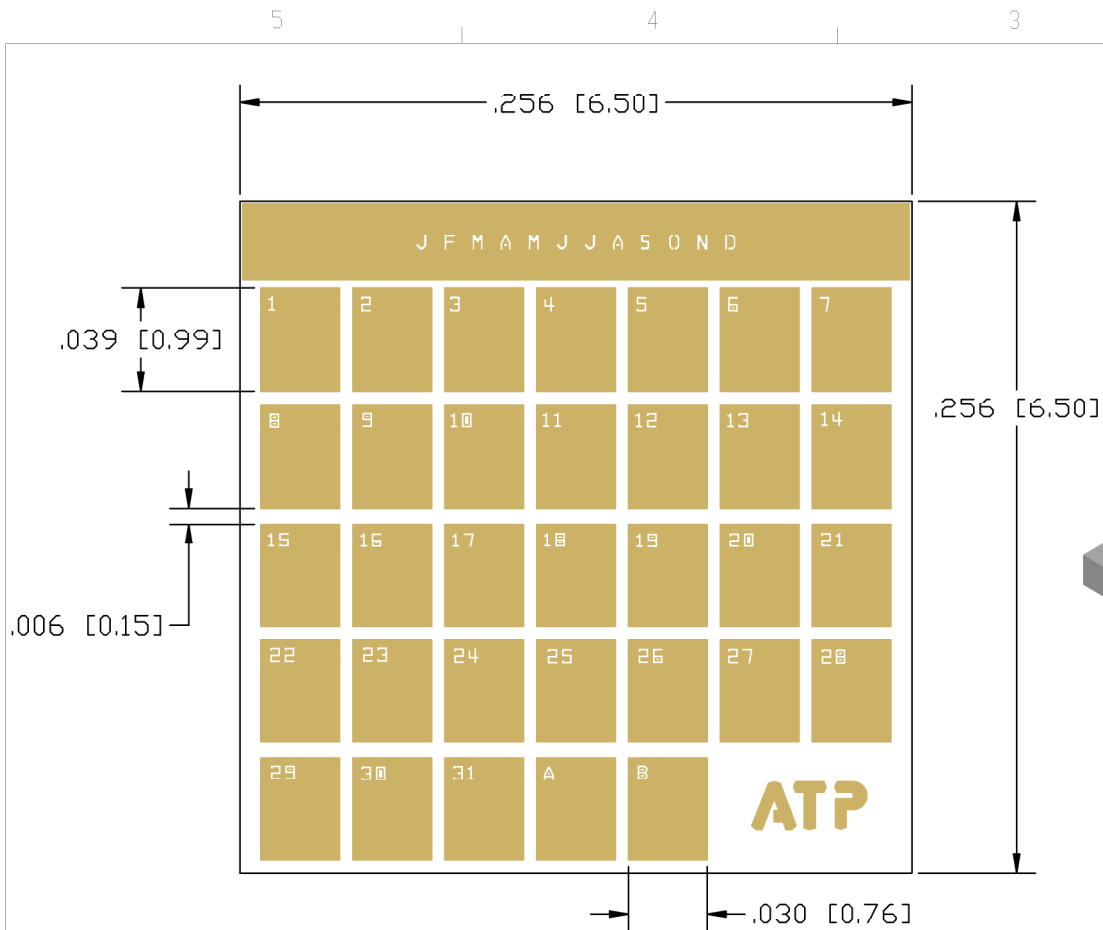
NOTES: (UNLESS OTHERWISE SPECIFIED)

 HATCHED AREAS ARE METALLIZED

1. MATERIAL: .015 [0.38mm] THK
  - (X) ASFIRED SURFACE FINISH <4 MICRONS [0.1016um]
  - ( ) POLISHED SURFACE FINISH <4 MICRONS [0.1016um]
  - ( ) ALN SURFACE FINISH <4 MICRONS [0.1016um]
  - ( ) BeO SURFACE FINISH <4 MICRONS [0.1016um]
  - ( ) FUSED SILICA/QUARTZ SURFACE FINISH <4 MICRONS [0.1016um].
2. METALIZATION A Side
  - T.W. = 400-800 Å [0.04-0.08um]
  - Au = 120u [0.04-0.08um]
  - B Side, None

|  |  |           |       |   |  |
|--|--|-----------|-------|---|--|
| UNLESS OTHERWISE SPECIFIED   |  | NAME      | DATE  | 3620 EDISON WAY, FREMONT, CA 94538 <510> 413-4293 |  |
| DIMENSIONS ARE IN INCHES   |  | DRAWN     | BKL   | 2016/14/12  |  |
| TOLERANCES:  |  | CHECKED   |       | TITLE: SUBSTRATE BOND PULL COUPON 1 X .5          |  |
| .XX +/- .01  |  | ENG APPR. |       | SIZE DWG. NO. A ATP-BPTC-1 X .5-XXX               |  |
| .XXX +/- .002  |  | MFG APPR. |       | REV -   |  |
| ANGLES +/- 1 DEG   |  | Q.A.      |       | SCALE: NONE                                       |  |
| INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5 2009   |  | CAGE CODE | 04ZM□ | SHEET 1 OF 1                                      |  |
| <br>THIRD ANGLE PROJECTION |  | MATERIAL  |       |   |  |
| SEE NOTE ONE   |  |           |       |   |  |

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NOTES: (UNLESS OTHERWISE SPECIFIED)

- MATERIAL: .015 [0.38mm] THK ALUMINA 99.6%
  - (X) ASFIRIED SURFACE FINISH <4 MICROINCHES [0.1016um]
  - ( ) POLISHED SURFACE FINISH <4 MICROINCHES [0.1016um]
  - ( ) ALN SURFACE FINISH <4 MICROINCHES [0.1016um]
  - ( ) BeO SURFACE FINISH <4 MICROINCHES [0.1016um]
  - ( ) FUSED SILICA/QUARTZ SURFACE FINISH <4 MICROINCHES [0.1016um]

- METALIZATION A Side
  - T.W.= 400-800 Å [0.04-0.08um]
  - Au= 120u" [3um] min.
  - B Side, None

DIMENSIONS: INCHES [MM]

|  |  |           |       |                                       |   |
|--|--|-----------|-------|---------------------------------------|---|
| UNLESS OTHERWISE SPECIFIED:                          |  | NAME      | DATE  | <b>ATP</b> APPLIED THIN-FILM PRODUCTS |   |
| DIMENSIONS ARE IN INCHES [mm]                        |  | DRAWN     | BKL   | 2016/14/12                            | 3620 EDISON WAY, FREMONT, CA 94538 (510) 413-4293 |
| TOLERANCES:  |  | CHECKED   |       |                                       | TITLE: BOND PULL TEST COUPON-1                    |
| .XX +/- .01 [0.25]                                   |  | ENG APPR. |       |                                       |   |
| .XXX +/- .002 [0051]                                 |  | MFG APPR. |       |                                       |   |
| ANGLES +/- 1 DEG                                     |  | Q.A.      |       |                                       |   |
| INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5 2009 |  | CAGE CODE | 04ZMO |                                       | SIZE DWG. NO. REV                                 |
| THIRD ANGLE PROJECTION                               |  |           |       | A                                     | ATP-BPTC-1 -                                      |
| MATERIAL   |  |           |       | SCALE: NONE                           | SHEET 1 OF 1                                      |
| SEE NOTE ONE   |  |           |       |                                       |   |

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