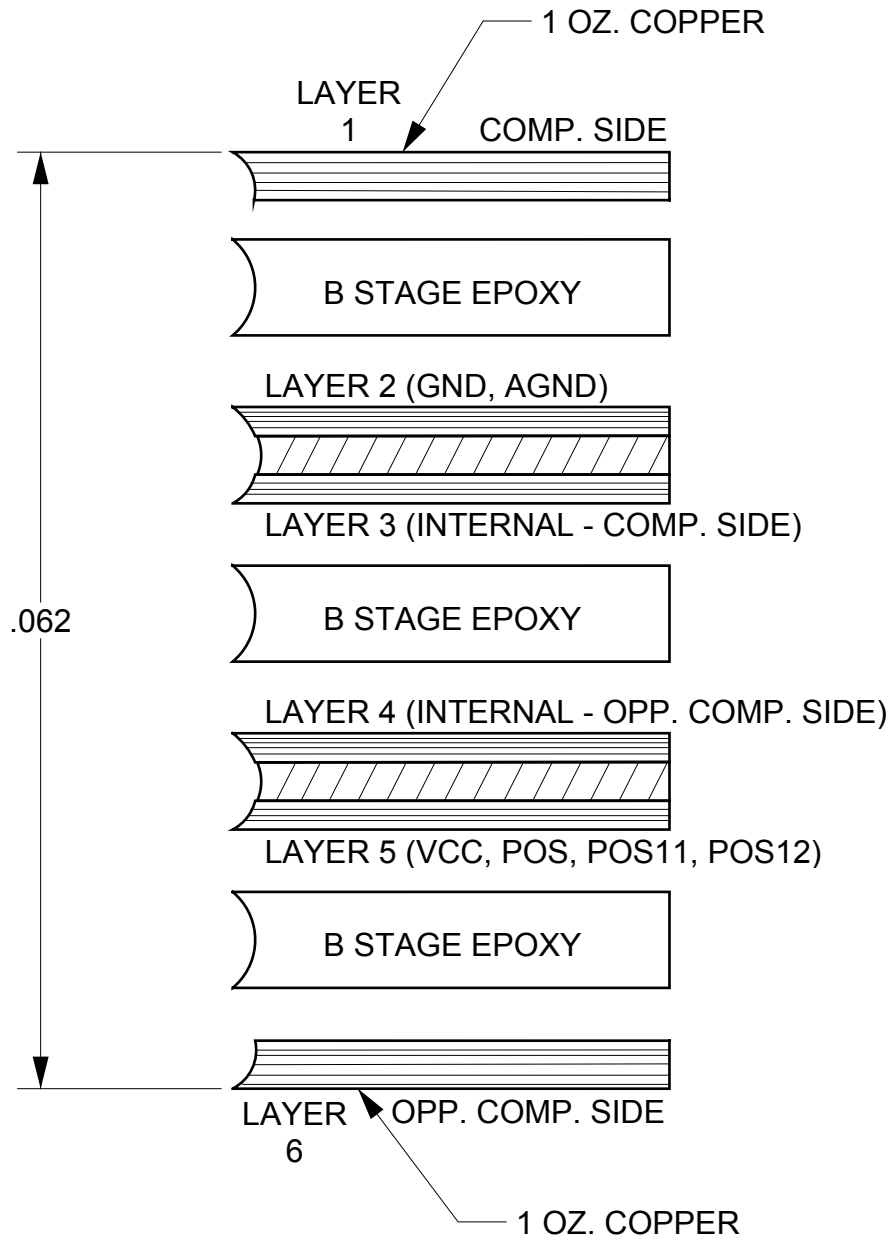


FINISHED HOLE SIZE TABLE

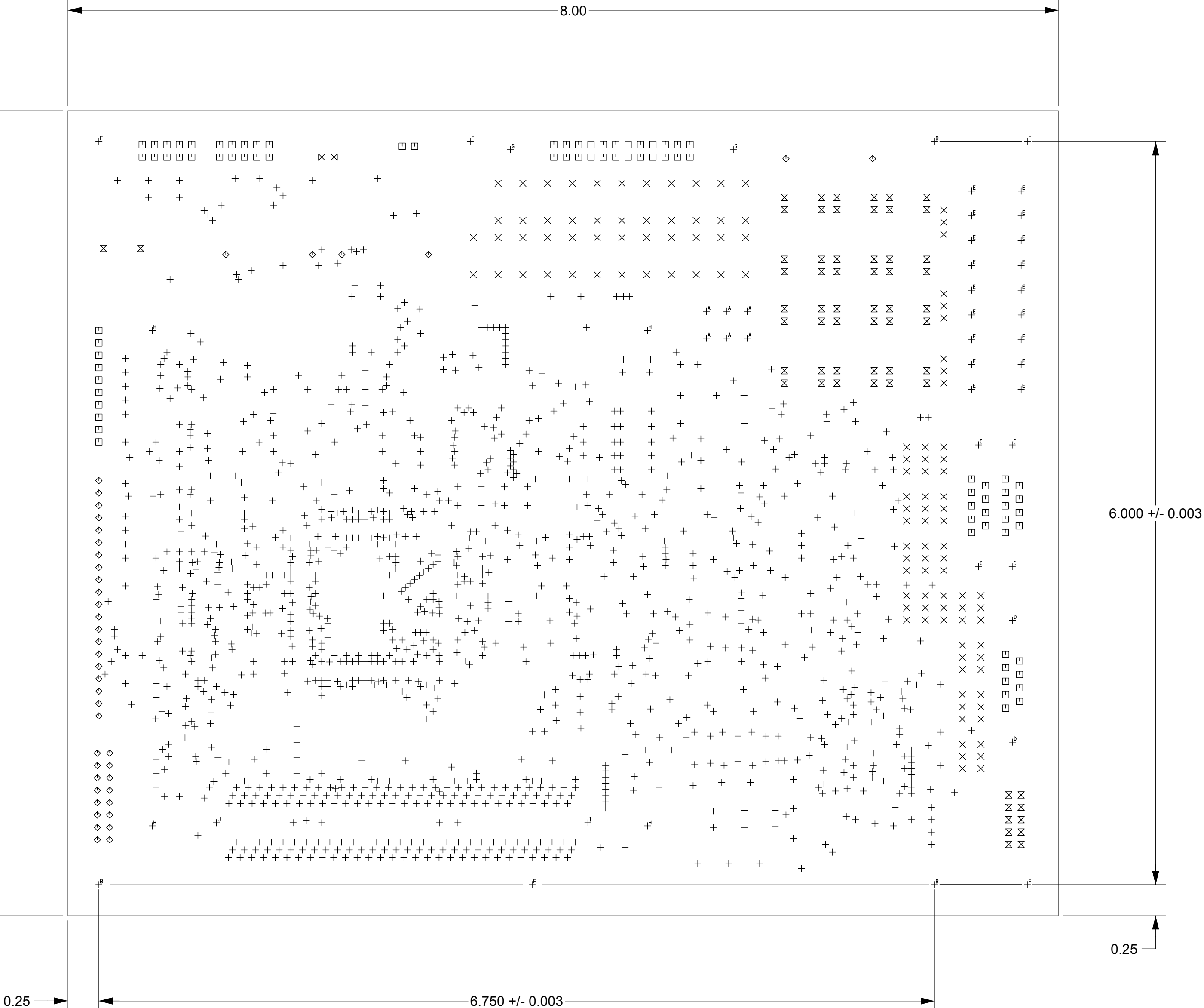
| DRILL SYMBOL   | DRILL SIZE | COUNT | PLATED | Min/Max   |
|----------------|------------|-------|--------|-----------|
| +              | 0.010      | 1272  | Yes    | +0/-0.010 |
| ⊠              | 0.030      | 2     | Yes    | +/-0.003  |
| ⊗              | 0.035      | 115   | Yes    | +/-0.003  |
| ⊠              | 0.038      | 60    | Yes    | +/-0.003  |
| ◇              | 0.040      | 42    | Yes    | +/-0.003  |
| □              | 0.042      | 83    | Yes    | +/-0.003  |
| + <sup>A</sup> | 0.055      | 6     | Yes    | +/-0.003  |
| + <sup>E</sup> | 0.062      | 18    | Yes    | +/-0.003  |
| + <sup>D</sup> | 0.120      | 2     | Yes    | +/-0.003  |
| + <sup>C</sup> | 0.125      | 4     | Yes    | +/-0.004  |
| + <sup>F</sup> | 0.157      | 5     | Yes    | +/-0.004  |
| + <sup>J</sup> | 0.032      | 1     | No     | +/-0.003  |
| + <sup>I</sup> | 0.048      | 1     | No     | +/-0.003  |
| + <sup>G</sup> | 0.106      | 2     | No     | +/-0.003  |
| + <sup>B</sup> | 0.157      | 3     | No     | +0.002/-0 |
| + <sup>H</sup> | 0.250      | 4     | No     | +/-0.004  |
| Total          |            | 1620  |        |           |



INTERNAL LAYERS 1 OZ. COPPER

NOTES :

- 1.0 RoHS: PCB MUST COMPLY WITH WATERS RoHS REQUIREMENTS DOCUMENT 735001207.
- 2.0 MATERIAL:
  - 2.1 MATERIAL TO BE IN ACCORDANCE WITH IPC-4101/99 OR BETTER.
  - 2.2 MATERIAL SHALL HAVE A DECOMPOSITION TEMPERATURE OF >=325 DEGREES C WITH CTE <=3.5% FROM AMBIENT TO 288 C AND SURVIVE 6 ASSEMBLY REFLOW EXCURSIONS.
  - 2.3 MANUFACTURER MAY ADD THIEVING TO EXTERNAL LAYERS TO IMPROVE COPPER DISTRIBUTION FOR PLATING. THIEVING MUST BE A MINIMUM OF .150 FROM ANY DESIGN FEATURE AND NO THIEVING IS ALLOWED UNDER ANY SURFACE MOUNT COMPONENTS.
- 3.0 SURFACE FINISH:
  - 3.1 ELECTROLESS NICKEL IMMERSION GOLD (ENIG) 3 - 8 MICRO INCHES OF GOLD OVER 100 - 200 MICRO INCHES OF NICKEL.
- 4.0 SOLDERMASK:
  - 4.1 ALL VIAS TO BE CAPPED FROM THE PRIMARY SIDE WITH SOLDERMASK OR EQUIVALENT PRODUCT PRIOR TO FINAL SOLDERMASK APPLICATION AS PER IPC-4761 TYPE IV VIA.
  - 4.2 SOLDERMASK OVER BARE COPPER (SMOBC).
- 5.0 PRINTED CIRCUIT BOARD FABRICATION NOTES AND REGULATORY REQUIREMENTS TO COMPLY WITH WATERS DOCUMENT NUMBER 735001870.
- 6.0 USE ARTWORK PHOTO 610000456 REV C FOR BOARD FABRICATION.



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|                                                                                                                                                                                                                            |                       |                     |                                             |                   |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|---------------------------------------------|-------------------|--------------|
| UNLESS OTHERWISE SPECIFIED<br><br>All dimensions are in inches.<br>Remove all burrs and break sharp edges.<br><br>Tolerances:<br>Decimals<br>.XX = ± .01<br>.XXX = ± .005<br>Angles = ± 0°30'<br><br>SURFACE ROUGHNESS 63✓ | DESIGN<br>B. DeGuire  | DATE<br>15-MAY-2015 | Waters<br>34 Maple St. Milford MA 01757 USA |                   |              |
|                                                                                                                                                                                                                            | DRAWN<br>B. Alexander | DATE<br>15-MAY-2015 |                                             |                   |              |
|                                                                                                                                                                                                                            | ENGR                  | DATE                | PCB<br>PCM PERSONALITY                      |                   |              |
|                                                                                                                                                                                                                            | ENGR                  | DATE                |                                             |                   |              |
|                                                                                                                                                                                                                            | APPROVED              | DATE                | SIZE DWG NO<br>D 510000456                  | REV<br>C          |              |
| DO NOT SCALE PRINT                                                                                                                                                                                                         |                       |                     | SCALE 1 : 1                                 | MENTOR EXPEDITION | SHEET 1 OF 1 |