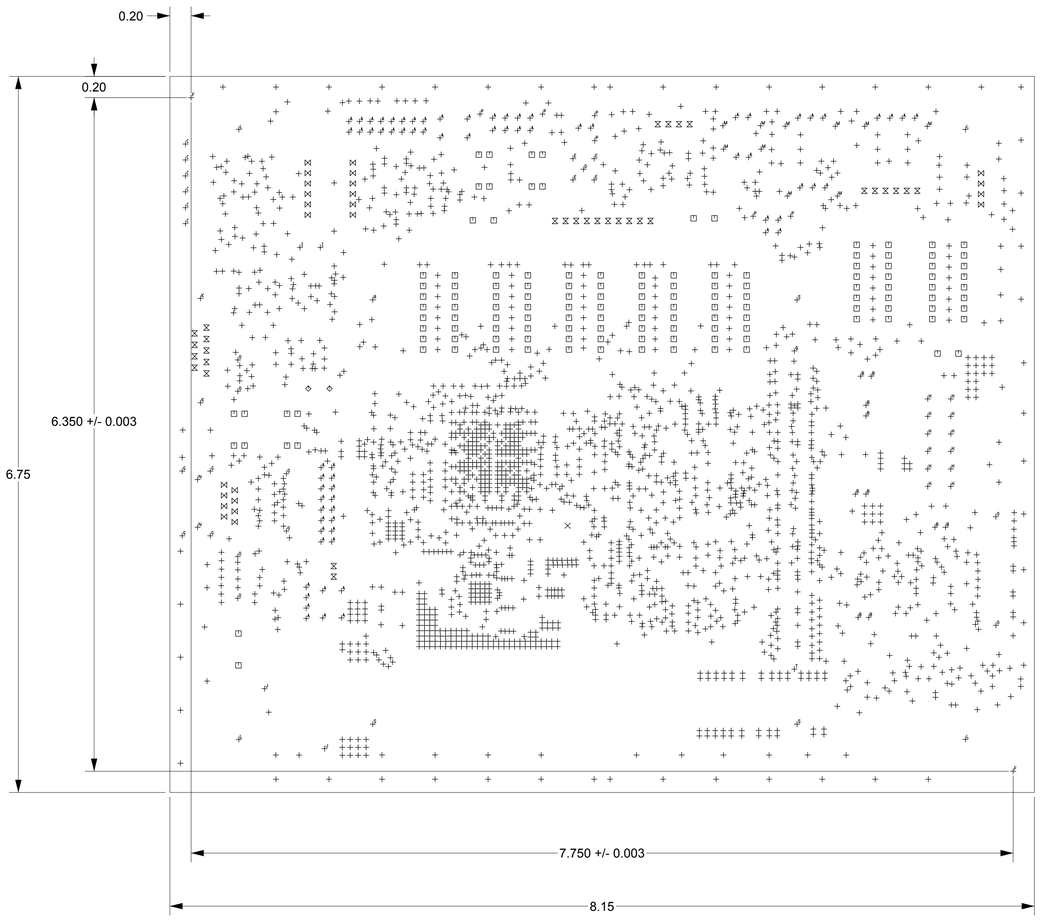
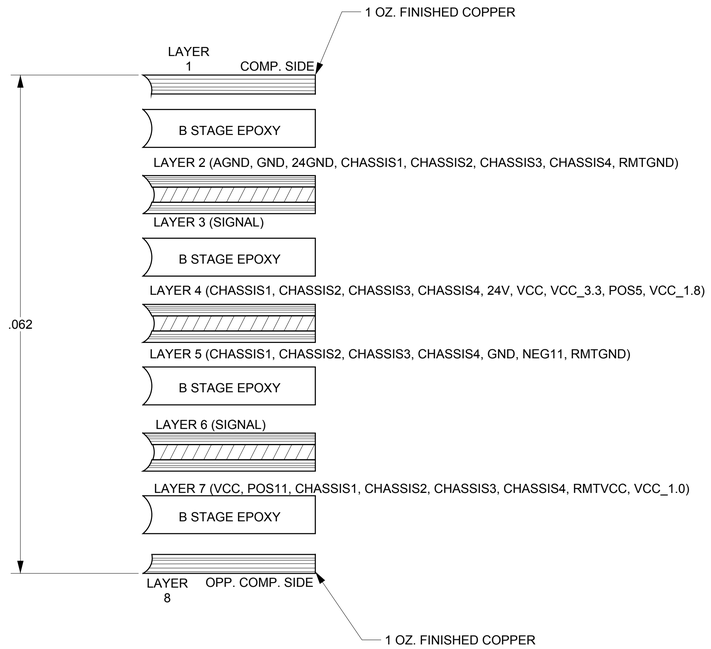
FINISHED HOLE SIZE TABLE

DRILL SYMBOL	DRILL SIZE	COUNT	PLATED	Min/Max
+	0.008	2324	Yes	+0/-0.008
+B	0.030	10	Yes	+/-0.003
⊠	0.035	24	Yes	+/-0.003
□	0.038	136	Yes	+/-0.003
+A	0.040	72	Yes	+/-0.003
⧖	0.042	31	Yes	+/-0.003
+D	0.046	1	Yes	+/-0.003
+C	0.047	6	Yes	+/-0.003
+J	0.052	2	Yes	+/-0.003
+H	0.055	12	Yes	+/-0.003
+I	0.060	2	Yes	+/-0.003
+G	0.062	4	Yes	+/-0.003
+F	0.068	4	Yes	+/-0.003
+K	0.125	2	Yes	+/-0.004
✕	0.141	1	Yes	+/-0.004
+L	0.157	4	Yes	+/-0.004
+T	0.032	1	No	+/-0.003
+O	0.039	8	No	+/-0.003
+P	0.040	6	No	+/-0.003
+Q	0.048	1	No	+/-0.003
+M	0.050	10	No	+/-0.003
◇	0.070	2	No	+/-0.003
+E	0.125	2	No	+0.002/-0
+N	0.128	2	No	+/-0.004
+S	0.189	3	No	+/-0.004
+R	0.250	1	No	+/-0.004
Total		2671		





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) 2 - 8 MICRO INCHES OF GOLD OVER 100 - 250 MICRO INCHES OF NICKEL, PER IPC-4552.

4.0 SOLDERMASK:
4.1 ALL VIAS TO BE PLUGGED FROM THE PRIMARY SIDE WITH SOLDERMASK OR EQUIVALENT PRODUCT PRIOR TO FINAL SOLDERMASK APPLICATION AS PER IPC-4761 TYPE IV-a 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 610000414 REV E FOR BOARD FABRICATION.

UNLESS OTHERWISE SPECIFIED
All dimensions are in inches. Remove all burrs and break sharp edges.
Tolerances:
Decimals
XX = ± .01
XXX = ± .005
Angles = ± 0°30'
SURFACE ROUGHNESS 63
DO NOT SCALE PRINT

DESIGN	G.TANCRELL	DATE 28-JAN-2019
DRAWN	B. ALEXANDER	DATE 28-JAN-2019
ENGR		DATE
ENGR		DATE
APPROVED		DATE

Waters
34 Maple St. Milford MA 01757 USA

TITLE
PCB
ACQTUV PERS ROHS

SIZE D | DWG NO 510000414 | REV E

SCALE 1 : 1 | MENTOR EXPEDITION | SHEET 1 OF 1

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