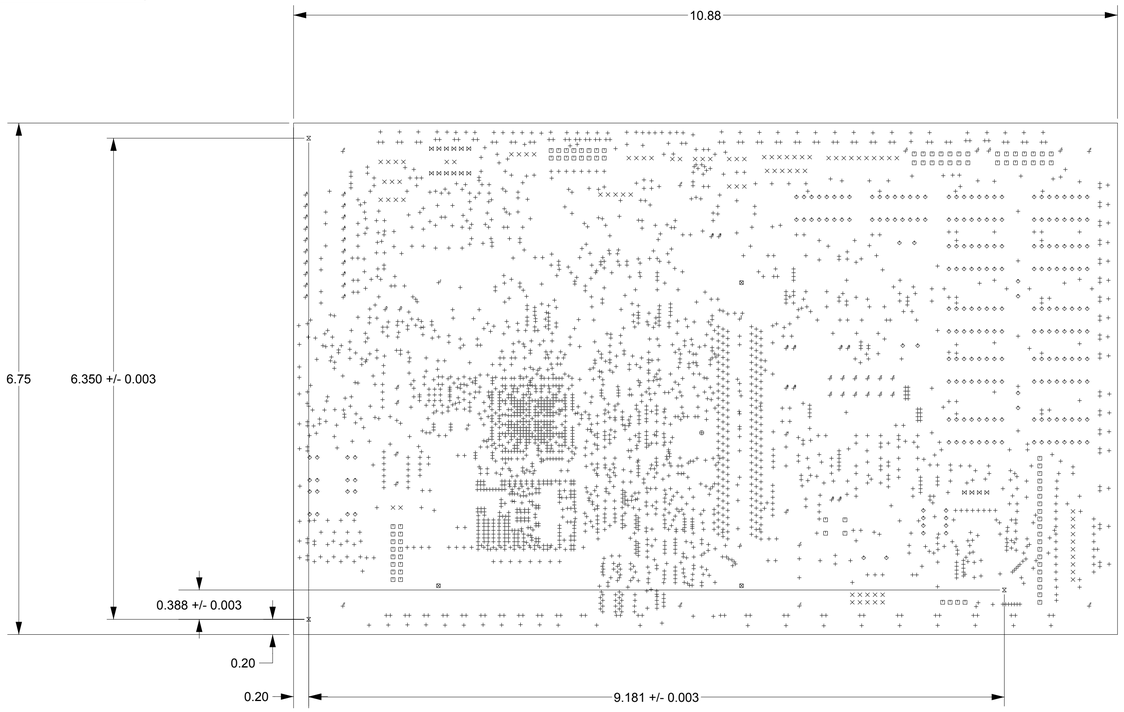
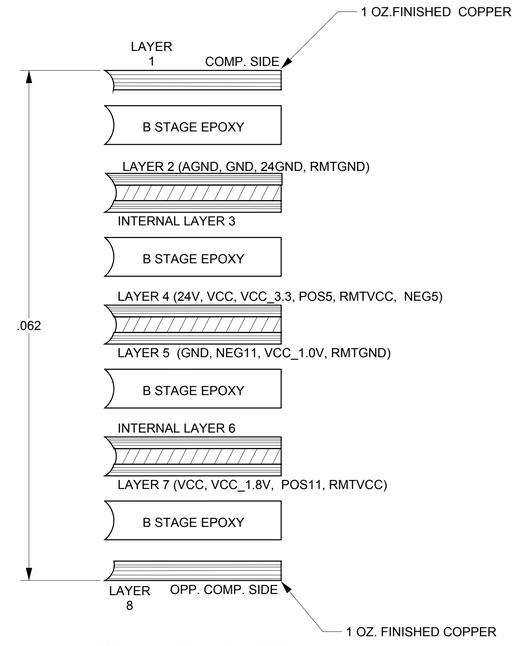
FINISHED HOLE SIZE TABLE

DRILL SYMBOL	DRILL SIZE	COUNT	PLATED	Min/Max
+	0.008	3032	Yes	+0/-0.008
B	0.030	10	Yes	+/-0.003
⋈	0.035	16	Yes	+/-0.003
◇	0.038	226	Yes	+/-0.003
T	0.040	88	Yes	+/-0.003
X	0.042	82	Yes	+/-0.003
A	0.048	20	Yes	+/-0.003
C	0.052	2	Yes	+/-0.003
E	0.055	12	Yes	+/-0.003
D	0.060	2	Yes	+/-0.003
⊕	0.141	1	Yes	+/-0.004
F	0.157	6	Yes	+/-0.004
L	0.032	1	No	+/-0.003
H	0.039	4	No	+/-0.003
G	0.040	4	No	+/-0.003
I	0.048	1	No	+/-0.003
K	0.070	2	No	+/-0.003
⧖	0.125	3	No	+0.002/-0
⊠	0.189	3	No	+/-0.004
M	0.250	1	No	+/-0.004
Total		3516		





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 610000355 REV F 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	Z. El-Massih	DATE 24-AUG-2018
DRAWN	B.Alexander	DATE 24-AUG-2018
ENGR		DATE
ENGR		DATE
APPROVED		DATE

Waters
34 Maple St. Milford MA 01757 USA

TITLE
PCB
2489 TUV PERSONALITY

SIZE D | DWG NO 510000355 | REV F

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

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