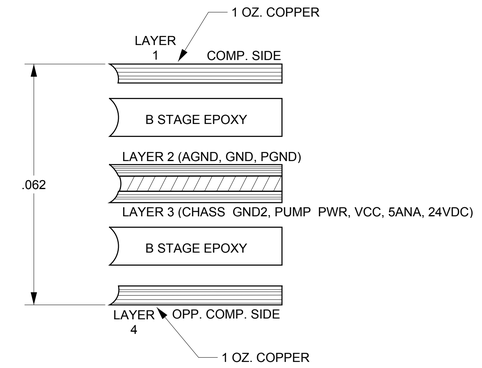
FINISHED HOLE SIZE TABLE

DRILL SYMBOL	DRILL SIZE	COUNT	PLATED	Min/Max
+	0.010	820	Yes	+0/-0.010
X	0.015	215	Yes	+0/-0.015
C	0.028	12	Yes	+/-0.003
F	0.030	2	Yes	+/-0.003
H	0.035	50	Yes	+/-0.003
E	0.038	10	Yes	+/-0.003
B	0.040	19	Yes	+/-0.003
⊠	0.042	54	Yes	+/-0.003
⊡	0.046	47	Yes	+/-0.003
A	0.052	10	Yes	+/-0.003
⧖	0.055	26	Yes	+/-0.003
D	0.062	12	Yes	+/-0.003
J	0.109	8	Yes	+/-0.003
◇	0.180	2	Yes	+/-0.004
N	0.213	1	Yes	+/-0.004
K	0.032	1	No	+/-0.003
M	0.048	1	No	+/-0.003
G	0.128	3	No	+0.002/-0
L	0.180	6	No	+/-0.004
L	0.189	3	No	+/-0.004
Total		1302		



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 610000575 REV A 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	B. Deguire	DATE 05-MAY-2014
DRAWN	B. Alexander	DATE 05-MAY-2014
ENGR		DATE
ENGR		DATE
APPROVED		DATE

Waters
34 Maple St. Milford MA 01757 USA

TITLE
PCB
1500 PUMP PERSONALITY

SIZE D | DWG NO 510000575 | REV A

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

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