

8

7

6

5

4

3

2

1

FINISHED HOLE SIZE TABLE

DRILL SYMBOL	DRILL SIZE	COUNT	PLATED	Min/Max
+	0.010	3705	Yes	+0/-0.010
×	0.020	12	Yes	+/-0.003
⦶	0.028	16	Yes	+/-0.003
⦶ ^B	0.032	5	Yes	+/-0.003
⊠	0.038	206	Yes	+/-0.003
⦶ ^A	0.040	152	Yes	+/-0.003
◇	0.042	100	Yes	+/-0.003
□	0.055	12	Yes	+/-0.003
⊠	0.060	6	Yes	+/-0.003
⦶ ^H	0.068	24	Yes	+/-0.003
⦶ ^E	0.080	4	Yes	+/-0.003
⦶ ^P	0.120	2	Yes	+/-0.003
⦶ ^G	0.125	4	Yes	+/-0.003
⦶ ^L	0.156	6	Yes	+/-0.004
⦶ ^N	0.039	2	No	+/-0.003
⦶	0.043	2	No	+/-0.003
⦶ ^P	0.052	2	No	+/-0.003
⦶ ^M	0.094	1	No	+/-0.003
⦶ ^O	0.116	6	No	+/-0.003
⦶ ^C	0.125	3	No	+0.002/-0
⦶ ^K	0.128	8	No	+/-0.004
⦶ ^U	0.156	6	No	+/-0.004
Total		4284		

11.75

1.000 +/- 0.003

0.20

0.20

7.600 +/- 0.003

8.00

11.350 +/- 0.003

LAYER 1

1 OZ. COPPER

COMP. SIDE

B STAGE EPOXY

LAYER 2 (AGND, EGND, EGND1, EGND2, GND)

LAYER 3 (SIGNAL)

B STAGE EPOXY

LAYER 4 (AGND, EGND, EGND1, EGND2, VCC, VCC 2.5, VCC 3.3)

LAYER 5 (EGND, EGND1, EGND2, REF5V, VACV5, VCC, VDD)

B STAGE EPOXY

LAYER 6 (SIGNAL)

LAYER 7 (EGND, EGND1, EGND2, GND)

B STAGE EPOXY

LAYER 8

OPP. COMP. SIDE

1 OZ. COPPER

.062

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 A SECONDARY SOLDERMASK, AFTER THE FINAL SURFACE FINISH IS APPLIED.

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 610000411 REV C 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. Dequire

DATE

03-APRIL-13

DRAWN

D. Lavery

DATE

03-APRIL-13

CHECKED

DATE

ENGR

DATE

ENGR

DATE

APPROVED

DATE

Waters

34 Maple St. Milford MA 01757 USA

PCB

EALLIANCE_CPU_ROHS

SIZE

D

DWG NO

510000411

REV

C

SCALE 1 : 1

MENTOR EXPEDITION

SHEET 1 OF 1

8

7

6

5

4

3

2

1

THIS DRAWING AND ALL INFORMATION HEREON IS THE PROPERTY OF WATERS CORP. ANY COPYING, REPRODUCTION OR UNAUTHORIZED USE IS FORBIDDEN WITHOUT WRITTEN CONSENT.

8

7

6

5

4

3

2

1