

- D**
1. GENERAL
 1. Fabricate PCB in accordance with IPC-6012B, Class 2 and IPC-6013 when applicable.
 2. Bow and twist shall be 0.75% or less, measured in accordance with IPC-TM-650, method 2.4.22.
 3. Artwork may be adjusted by the PCB fabricator to compensate for manufacturing process tolerances or impedance requirements.
 4. All dimensions are mm.
 2. MATERIALS
 1. Laminate and prepreg to be ISOLA 370HR or equivalent.
 2. Copper foil to be in accordance with IPC-4562.
 3. HOLES
 1. Hole sizes are finished hole sizes after plating.
 2. No hole breakout allowed.
 4. FINISH
 1. Apply Liquid Photo Image-able solder mask, color Red, per IPC-SM-840, Class H, to both sides of the board over bare copper.
 2. All exposed conductive pattern areas not covered with soldermask or other plating shall be plated with Electroless Nickel Immersion Gold, ENIG, per IPC-4552, suitable for wire-bonding.
 3. Solder mask images that are the same size as the component pads may be enlarged, but shall not be enlarged beyond 0.05mm per side. All other soldermask shall not be enlarged.
 4. Soldermask overlap on smd lands is not allowed.
 5. MARKING
 1. UL logo, manufacturer's identification and date code shall be rendered on the top side of the pcb, in silkscreen.
 2. Silkscreen both sides of the pcb using non-conductive epoxy ink, color white. No ink shall be on exposed pads.
 6. TEST REQUIREMENTS
 1. 100% netlist verification using the netlist information in the ODB++ data
- C**
- B**
- A**

Min. Track/Gap (Outer) : 0.10/0.10
 Min. Track/Gap (Inner) : 0.94/0.10

SMD Pads Top : 1389
 SMD Pads Bottom : 351
 Minimum Pitch : 0.50mm
 Minimum Annular Ring : 0.25mm

Total no. of holes : 2296
 Largest hole size : 3.2
 Smallest hole size : 0.2
 No. of hole sizes : 11

Connector Gold : No
 Peel-Off mask : No
 Scoring : No
 Internal routing : No

Manufacturer's Logo : Yes, See drawing PCB-002
 Date Marking : Yes, See drawing PCB-002
 UL Marking : Yes, See drawing PCB-002

REV.	BY	NOTES
100MHZ IN THE LOOP		
PROJECT : ET PATHFINDER		ET nr. : 11500.04.01.00
SHEET NAME : PCB SPECIFICATION		Designed by : charli
		Drawn by : charli
		SHEETSIZE : 420 X 297 MM
		SHEET 1 OF 3 A3
Science Park 105 +31 (0)20 - 5922000		Date 2021-10-01
		Sheet Number PCB-001



6

5

4

3

2

1

D

D

C

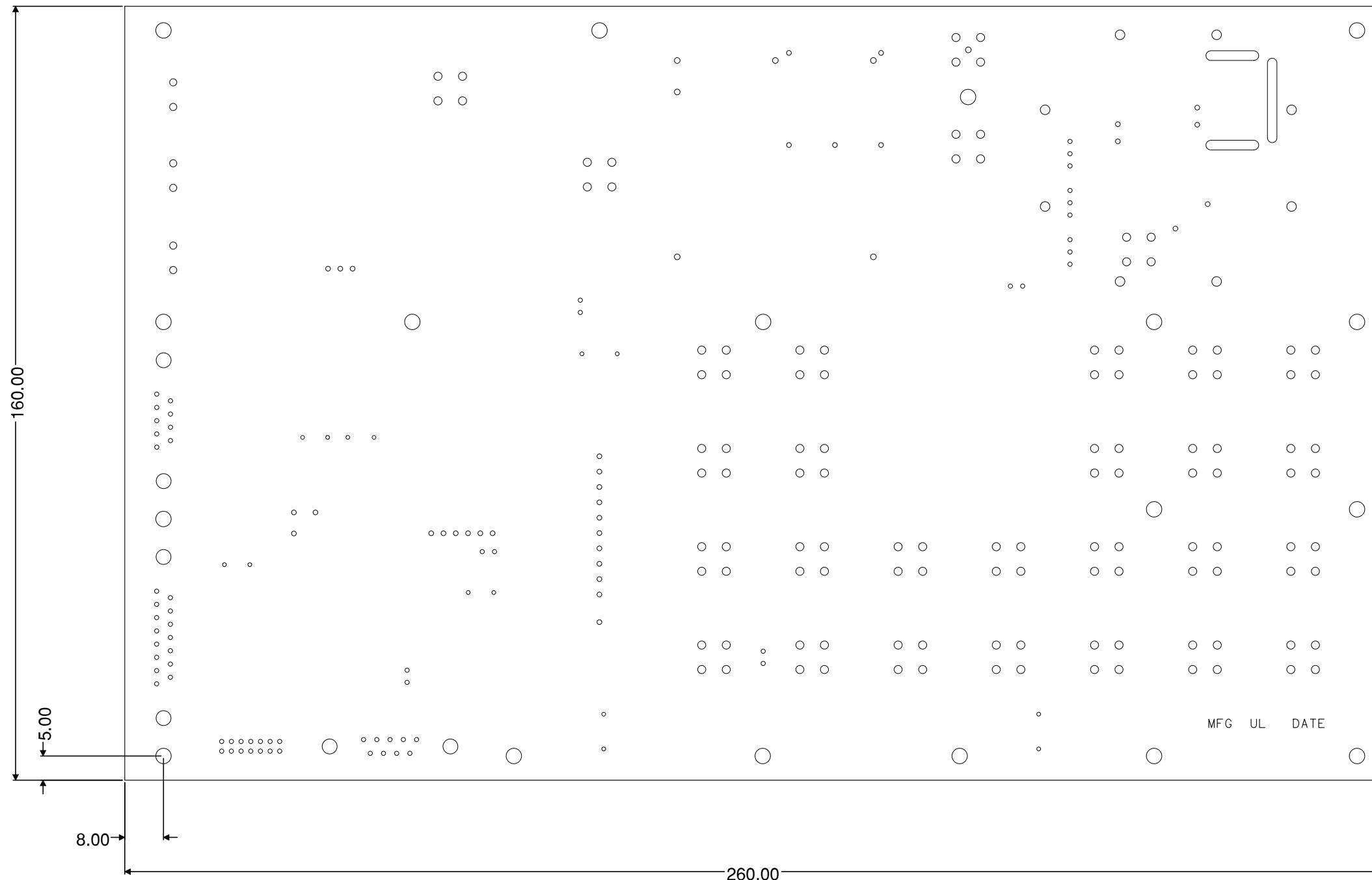
C

B

B

A

A



100MHZ IN THE LOOP		
PROJECT : ET PATHFINDER		
SHEET NAME : PCB DIMENSIONS		
ET nr. : 11500.04.01.0		
Designed by : charli		
Drawn by : charli		
SHEETSIZE : 420 X 297 MM		
SHEET 2 OF 3 A3		
Science Park 105 1098XG Amsterdam +31 (0)20 - 5922000 www.nikhef.nl		
Date 2021-10-01 Sheet Number PCB-002		

D

D

C

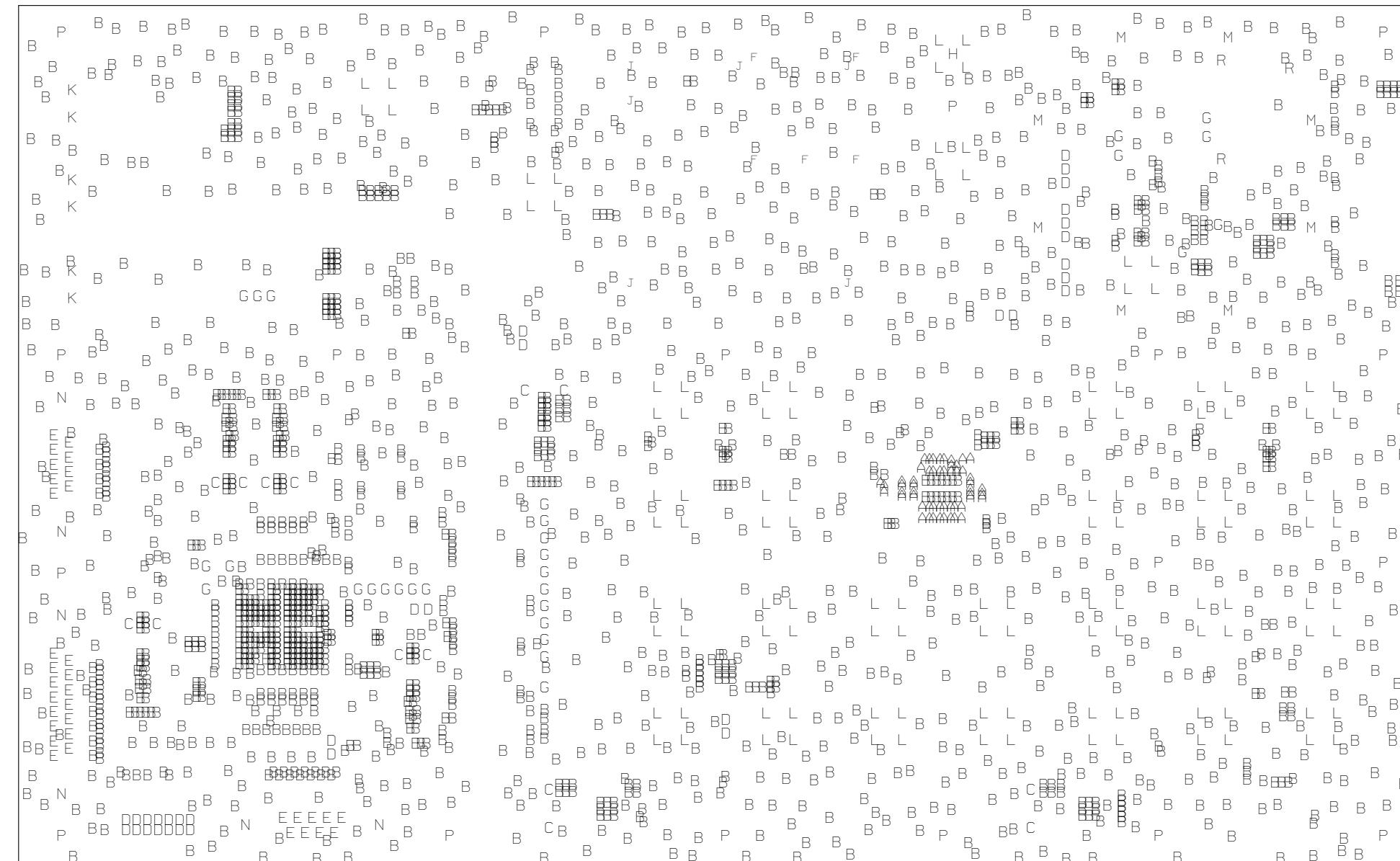
C

B

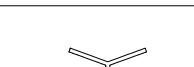
B

A

A



Through Holes All Drills (unless specified) +/- 0.10 (MM)				
Symbol	Diameter	Tolerance	Plated	Quantity
A	0.20		Yes	53
B	0.25	+/- 0.05	Yes	1968
C	0.80		Yes	14
D	0.90		Yes	33
E	0.90	+/- 0.08	Yes	33
F	1.00	+/- 0.08	Yes	5
G	1.00	+/- 0.10	Yes	29
H	1.20		Yes	1
J	1.20	+/- 0.08	Yes	6
K	1.50		Yes	6
L	1.70		Yes	116
M	2.00		Yes	8
N	3.10	+/- 0.08	Yes	6
P	3.20		Yes	18
R	2.00		No	3

REV.	BY	NOTES
100MHZ IN THE LOOP		
PROJECT :	ET PATHFINDER	
SHEET NAME :	DRILL CHART	
		ET nr. : 11500.04.01.0 Designed by : charli Drawn by : charli Sheetsize : 420 X 297 MM Sheet 3 of 3 A3
Science Park 105 +31 (0)20 - 5922000	1098XG Amsterdam www.nikhef.nl	Date 2021-10-01
		Sheet Number PCB-003