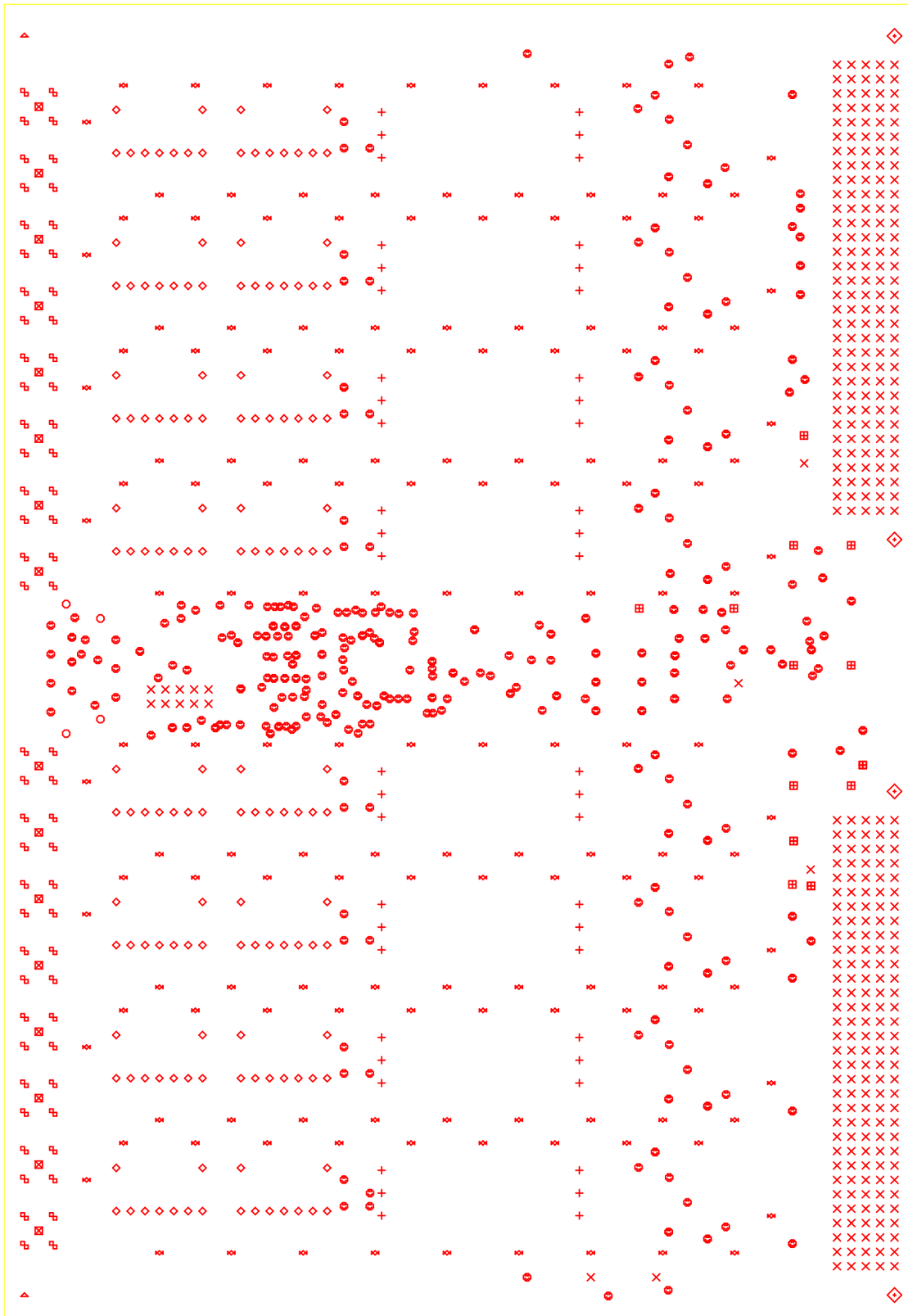
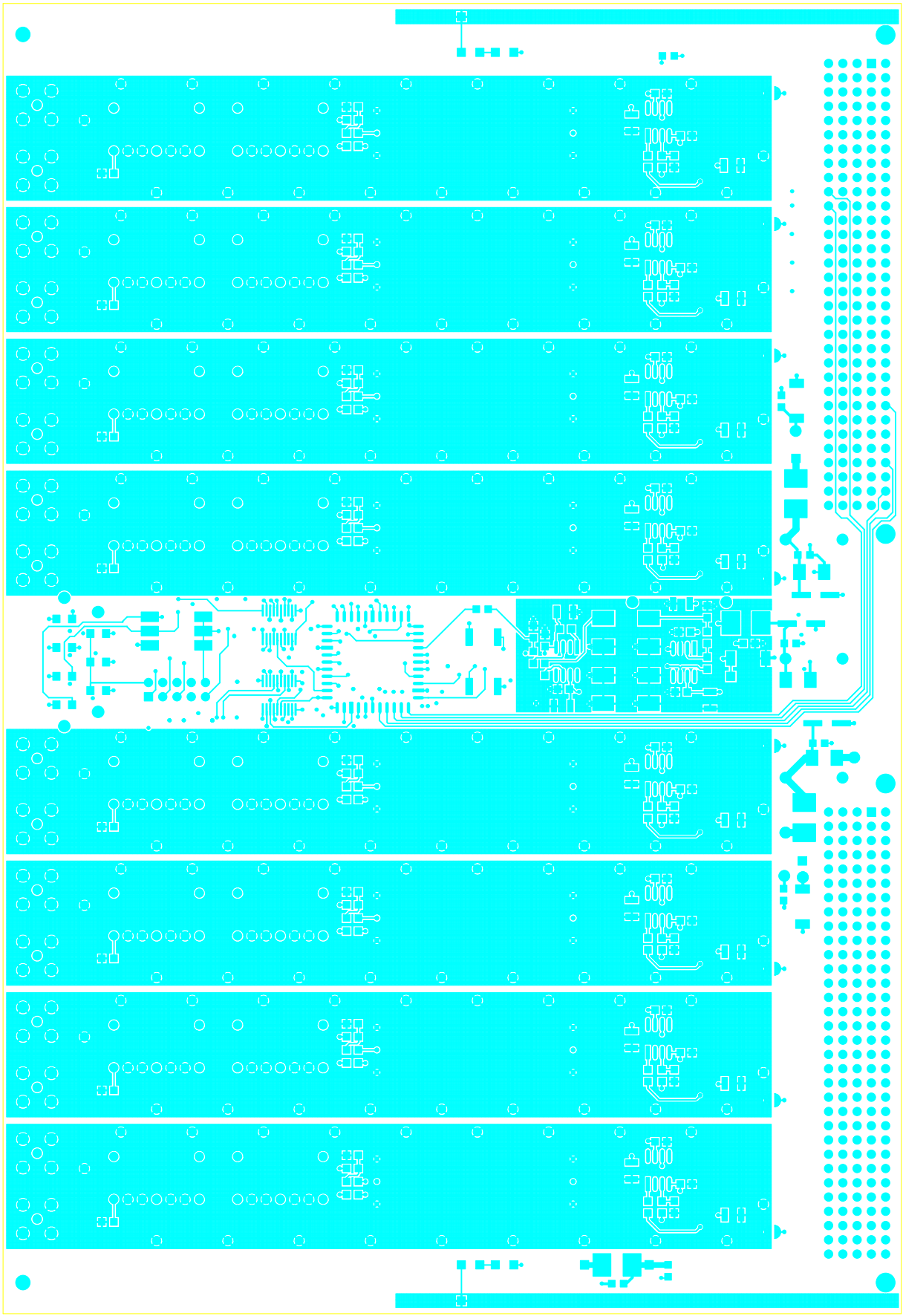


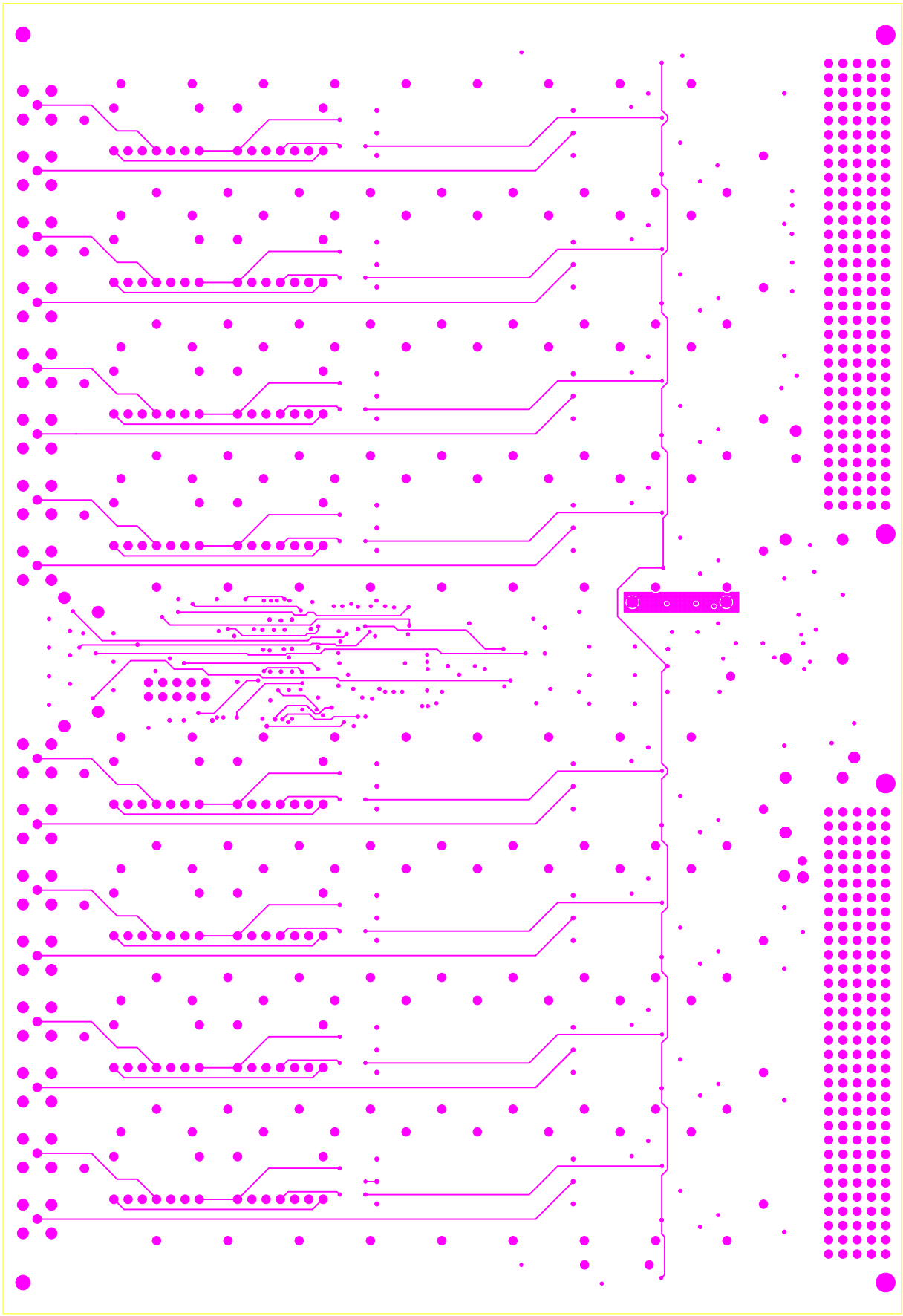
DRILL CHART				
SYM	DIAM	TOL	QTY	NOTE
⊙	0.012		275	
+	0.023		48	
◇	0.035		144	
×	0.038		335	
⊠	0.045		16	
⋈	0.050		160	
⊞	0.057		13	
⧉	0.060		64	
○	0.085		4	
△	0.105		2	
◈	0.106		4	
TOTAL			1065	

LAYER STACKUP: LAYER 1:TOP-(ROUTING)
LAYER 2:INNER1-(50 OHM EMBEDDED MICRO STRIP, WITH RESPECT TO TOP AND INNER2)
LAYER 3:INNER2-(ROUTING)
LAYER 4:POWER-(PLANE)
LAYER 5:INNER3-(ROUTING)
LAYER 6:BOTTOM-(ROUTING)

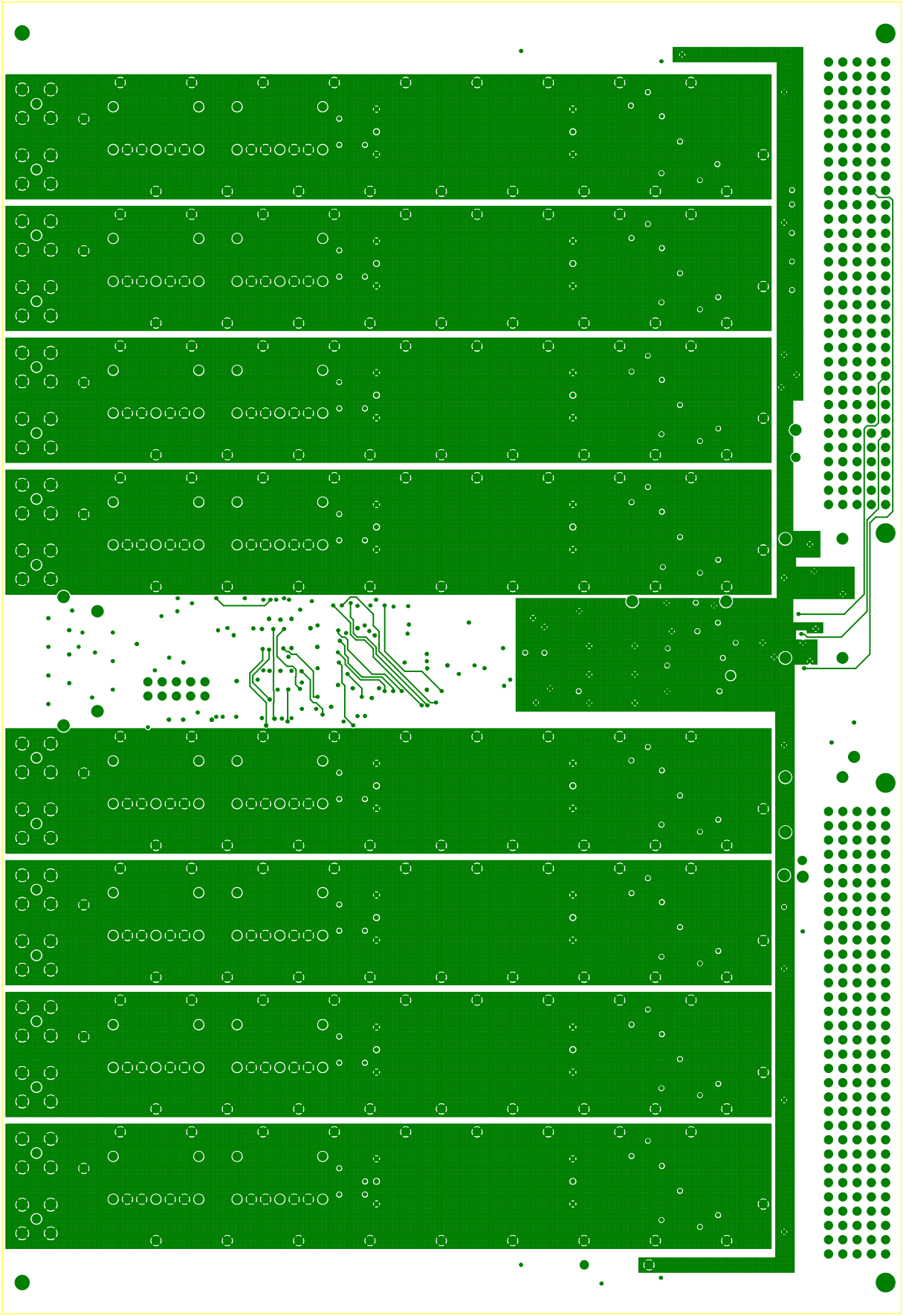
NOTES: HASL, SMOBC, LPI SOLDERMASK
LAYER 2 IS 50 OHM MICRO STRIP CONTROLLED IMPEDANCE
REFERENCED TO THE GND PLANES ON TOP AND INNER 2.
Connectivity to be tested including opens and shorts

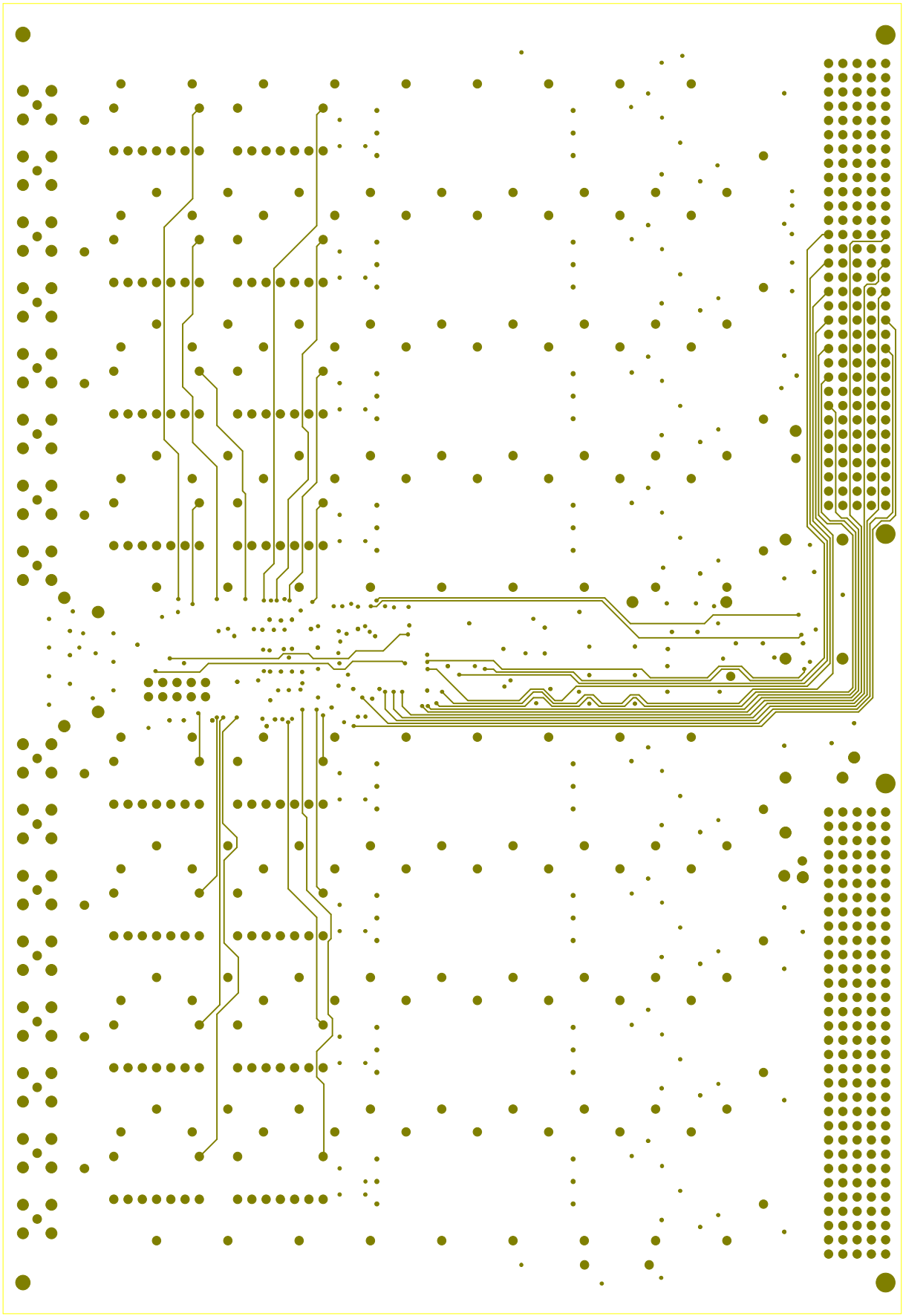
MT1
FERMI NATIONAL ACCELERATOR LABORATORY
TEVATRON BPM FILTER CARD
TP1
R1
R2
R3
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
J15
J16
J17
B1
B2
B3
B4
B5
B6
B7
B8
U1
U2
U3
U4
U5
U6
U7
U8
U9
U10
U11
U12
U13
U14
U15
U16
U17
U18
U19
U20
U21
U22
U23
U24
U25
U26
U27
U28
U29
U30
U31
U32
U33
U34
U35
U36
U37
JP1
JP2
JP3
JP4
JP5
JP6
JP7
JP8
P1
P2
TP2
(+12V)
TP3
(+12V)
TP4
(+5V)
L1
L2
L3
L4
F1
F2
F3
(1 AMP)
(-12V)
(1 AMP)
(+12V)
(1 AMP)
(+5V)
D1
D7
D10
C27
C29
C38
LP1
LP2
LP3
SW1
(SEL)
(SW0)
(SW1)
(SW2)
(+5V)
(-12V)
(+12V)
Y1
TP5
(GND)
TP6 (GND_SIGNAL)
TP7
MT2
DESIGNED BY: KEN TREPTOW CD/CEPA/ESE
LAYOUT BY: STEW BLEDSOE CD/CSS
18 JUN 04

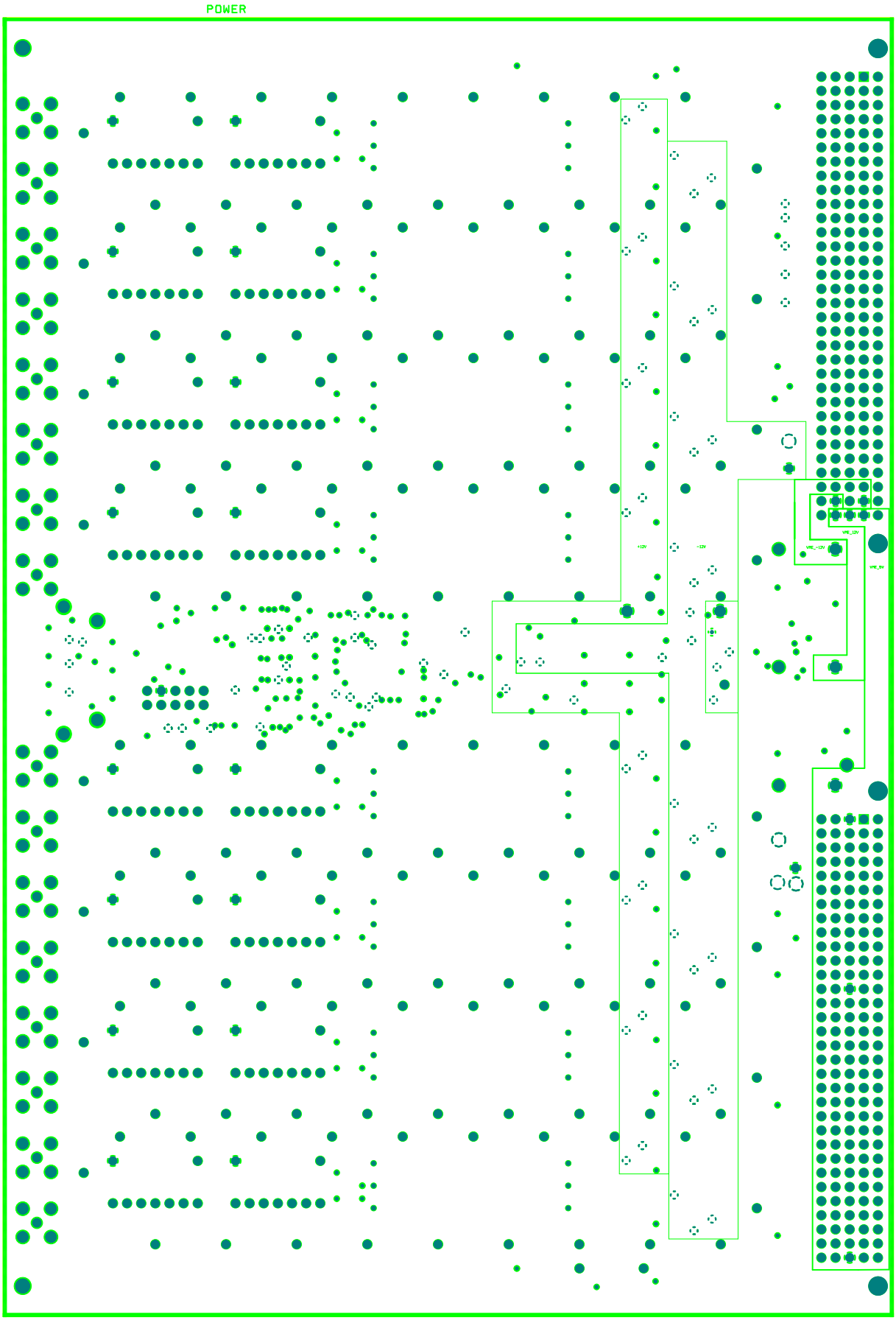

TOP


INNER1

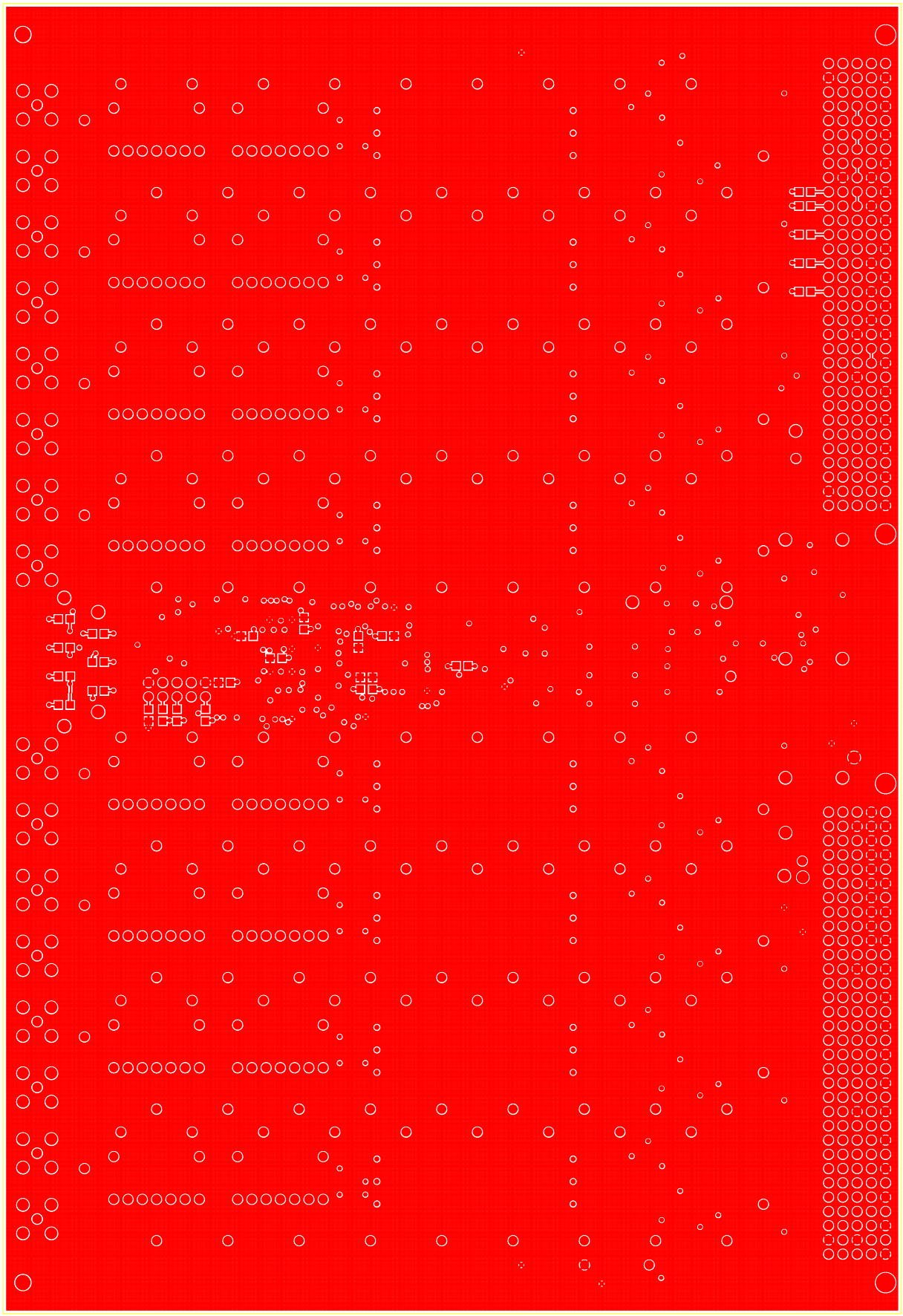
INNER2

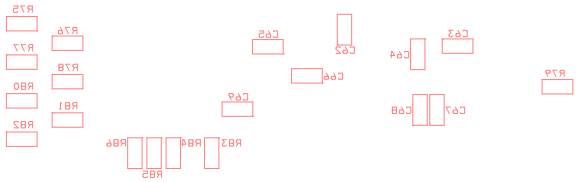



INNER3


POWER

BOT




R75
R76
R77
R78
R80
R81
R82
C65
C62
C66
C64
C63
C69
C68
C67
R79
R86
R84
R83
R85

R70
R71
R72
P1
R73
R74

P2

REV.

S/N