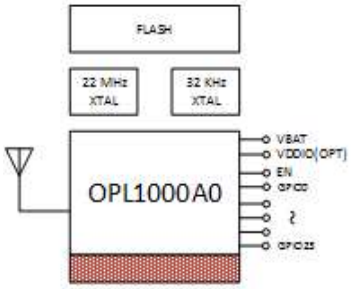
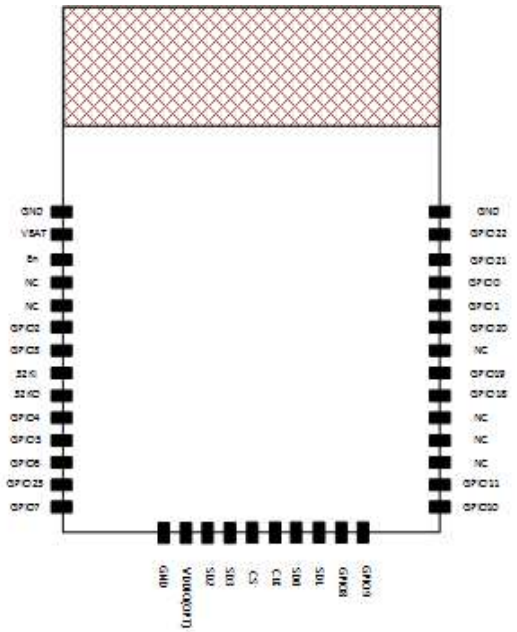
OPL1000 A1 Module

Date	Description
2018/01/23	Initial
2018/02/07	1. move out flash, 32K XTAL, C24
2018/06/15	1. Change to A1 version
2018/09/10	1. C26,C27 C28 DNI 2. Add C68, C69 L3 CN1 3. remove R3 R6 4. C14 change to 4.7uF 5. Add pi circuit on pin19,pin20
2018/10/29	1. Add Flash, 32K XTAL, RST, EN circuit
2018/11/08	1. remove C18,R82,R87,R88 (Flash part) 2. remove C20,C16, change C21 to 4,7uF 3. remove C18, change C72 to 10uF 4. remove D1,D2,C28,C26,C27 5. Change 32.768 XTAl 6. Change C70,C71 to 5.1pF
2018/12/03	1. remove C67 (Buck FB)
2018/12/22	1. remove TP2 and change TP3 circuit
2019/05/16	1. C65 DNI 2. Change R126 51K ohm
2019/05/22	1. Change C70,C71 to 9pf
2019/05/29	1. Change R114 to 44.2K ohm
2019/06/13	1. Midify A1 pin definition
2019/06/25	1. Point(TP1&TP4&TP5) is short





H1 H2 H3
TEST-1-R TEST-1-R TEST-1-R

H4 H5 H6
TEST-1-R TEST-1-R TEST-1-R

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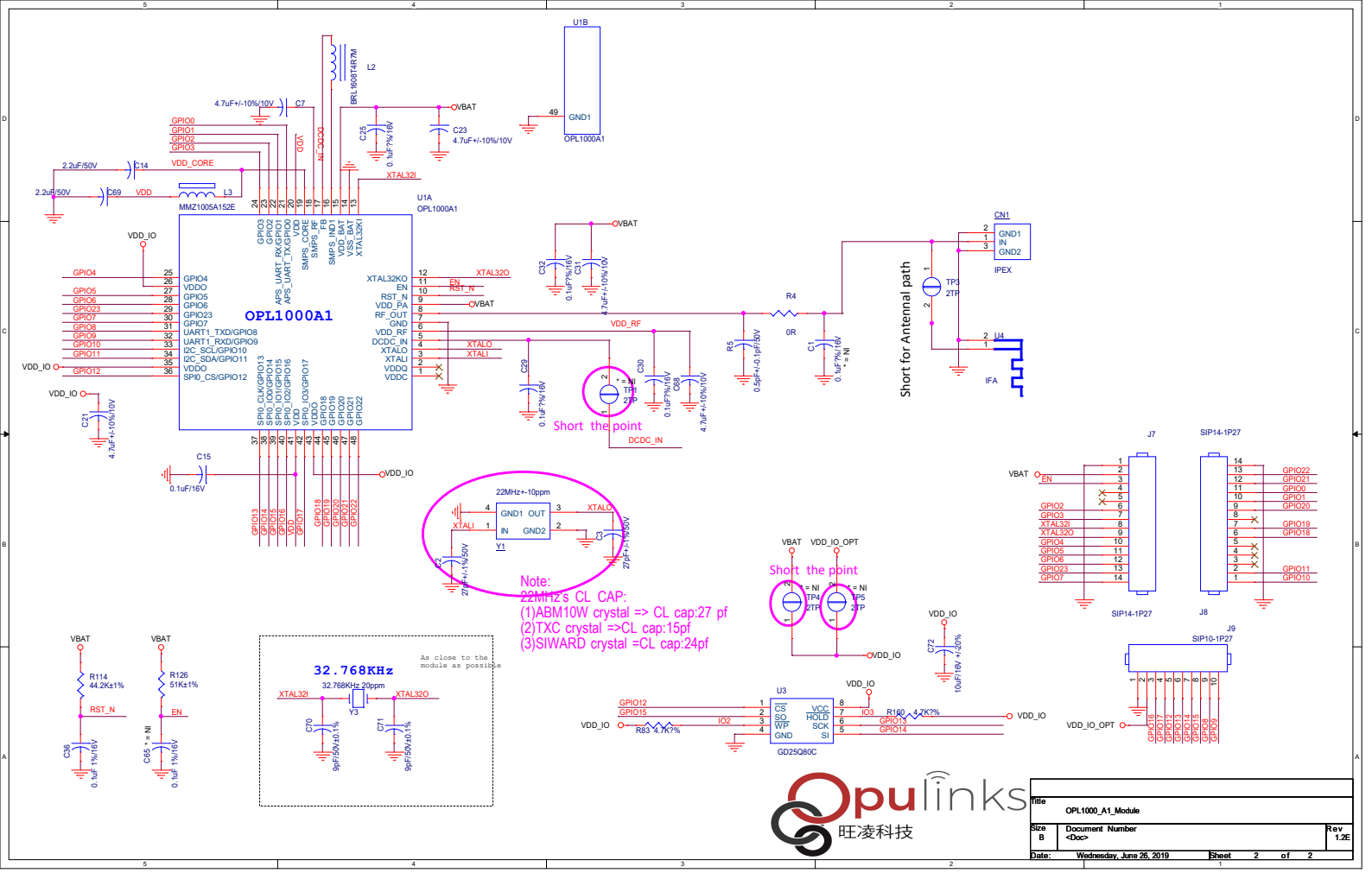
OPL1000A1
U1A
U1B
GND1
L2
BRL1608T4R7M
L3
MMZ1005A152E
C7
4.7uF+/-10%/10V
C14
2.2uF/50V
C69
C23
4.7uF+/-10%/10V
C25
0.1uF7%/16V
VBAT
VDD_CORE
VDD
XTAL32I
XTAL32O
VDD_IO
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO23
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
UART1_TXD/GPIO8
UART1_RXD/GPIO9
I2C_SCL/GPIO10
I2C_SDA/GPIO11
SPI0_CS/GPIO12
SPI0_CLK/GPIO13
SPI0_IO0/GPIO14
SPI0_IO1/GPIO15
SPI0_IO2/GPIO16
SPI0_IO3/GPIO17
GPIO18
GPIO19
GPIO20
GPIO21
GPIO22
XTAL32KO
EN
RST_N
VDD_PA
RF_OUT
GND
VDD_RF
DCDC_IN
XTALO
XTALI
VDDQ
VDDC
C15
0.1uF/16V
C21
4.7uF+/-10%/10V
C32
C33
C29
C30
C68
4.7uF+/-10%/10V
R4
0R
R5
0.5pF+/-0.1pF/50V
C1
Short the point
DCDC_IN
Short for Antennal path
CN1
GND1
IN
GND2
IPEX
TP3
2TP
U4
IFA
22MHz+-10ppm
Y1
C2
27pF+/-1%/50V
C3
Note:
22MHz's CL CAP:
(1)ABM10W crystal => CL cap:27 pf
(2)TXC crystal =>CL cap:15pf
(3)SIWARD crystal =CL cap:24pf
J7
SIP14-1P27
J8
J9
SIP10-1P27
Short the point
TP4
TP5
C72
10uF/16V +/-20%
U3
GD25Q80C
R83 4.7K?%
R160 4.7K?%
R114
44.2K±1%
R126
51K±1%
RST_N
EN
C36
C65
0.1uF 1%/16V
32.768KHz
32.768KHz 20ppm
Y3
C70
C71
9pF/50V±0.1%
As close to the module as possible
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Title
OPL1000_A1_Module
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Rev
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Date:
Wednesday, June 26, 2019
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