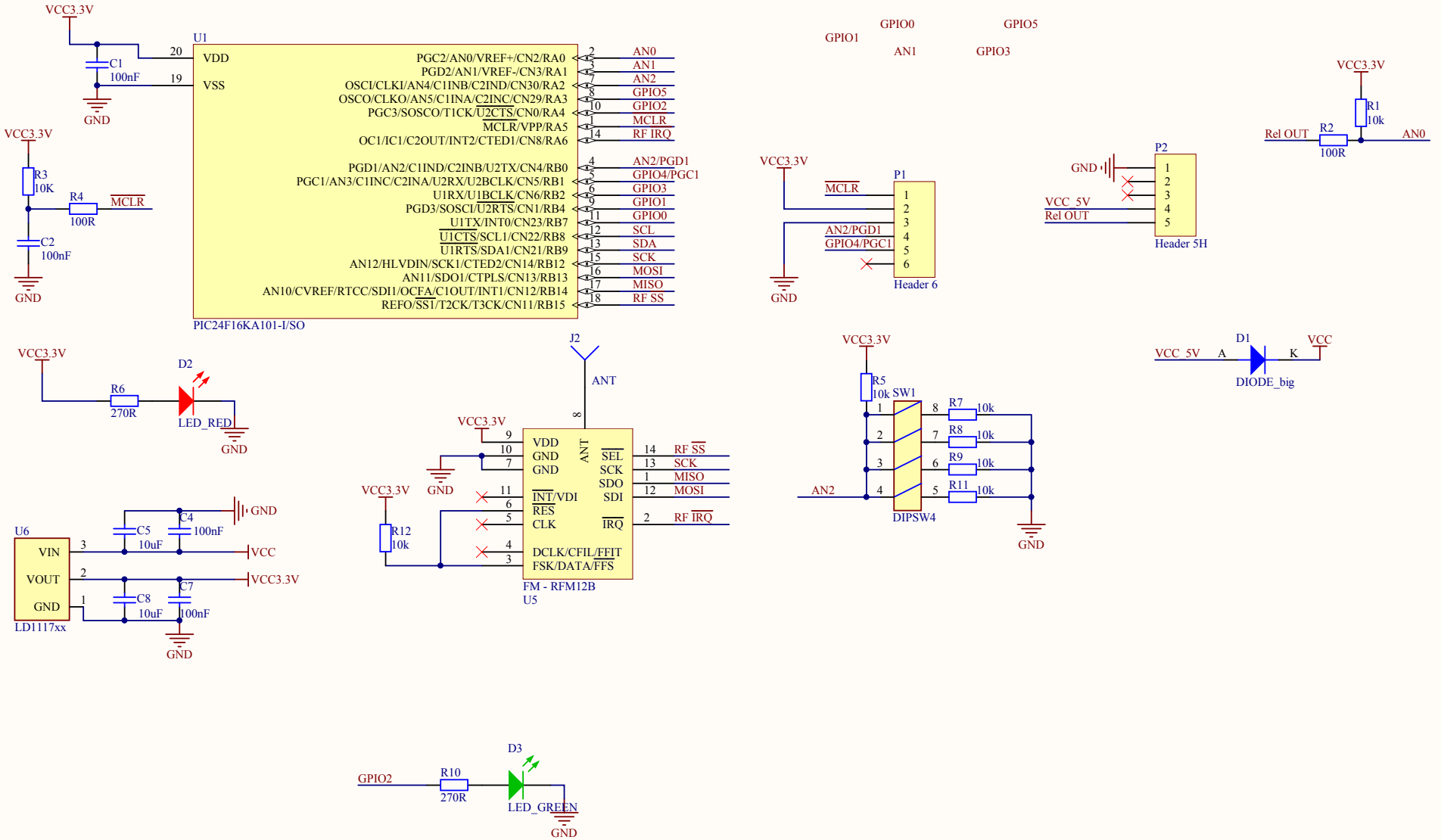
VCC3.3V
U1
C1
100nF
GND
R3
10K
R4
MCLR
100R
C2
100nF
PIC24F16KA101-I/SO
VDD
VSS
PGC2/AN0/VREF+/CN2/RA0
PGD2/AN1/VREF-/CN3/RA1
OSCI/CLKI/AN4/C1INB/C2IND/CN30/RA2
OSCO/CLKO/AN5/C1INA/C2INC/CN29/RA3
PGC3/SOSCO/T1CK/U2CTS/CN0/RA4
MCLR/VPP/RA5
OC1/IC1/C2OUT/INT2/CTED1/CN8/RA6
PGD1/AN2/C1IND/C2INB/U2TX/CN4/RB0
PGC1/AN3/C1INC/C2INA/U2RX/U2BCLK/CN5/RB1
U1RX/U1BCLK/CN6/RB2
PGD3/SOSCI/U2RTS/CN1/RB4
U1TX/INT0/CN23/RB7
U1CTS/SCL1/CN22/RB8
U1RTS/SDA1/CN21/RB9
AN12/HLVDIN/SCK1/CTED2/CN14/RB12
AN11/SDO1/CTPLS/CN13/RB13
AN10/CVREF/RTCC/SDI1/OCFA/C1OUT/INT1/CN12/RB14
REFO/SST/T2CK/T3CK/CN11/RB15
AN0
AN1
AN2
GPIO5
GPIO2
MCLR
RF IRQ
AN2/PGD1
GPIO4/PGC1
GPIO3
GPIO1
GPIO0
SCL
SDA
SCK
MOSI
MISO
RF SS
GPIO0
GPIO1
AN1
GPIO5
GPIO3
VCC3.3V
MCLR
AN2/PGD1
GPIO4/PGC1
P1
Header 6
GND
VCC3.3V
R1
10k
Rel OUT
R2
100R
AN0
P2
GND
VCC_5V
Rel OUT
Header 5H
VCC3.3V
R6
270R
D2
LED_RED
GND
J2
ANT
VCC3.3V
GND
R12
10k
FM - RFM12B
U5
VDD
GND
GND
INT/VDI
RES
CLK
DCLK/CFIL/FFIT
FSK/DATA/FFS
SEL
SCK
SDO
SDI
IRQ
ANT
RF SS
SCK
MISO
MOSI
RF IRQ
VCC3.3V
R5
10k
SW1
AN2
DIPSW4
R7
R8
R9
R11
10k
GND
D1
VCC_5V
A
K
VCC
DIODE_big
U6
VIN
VOUT
GND
LD1117xx
C4
100nF
C5
10uF
C7
100nF
C8
10uF
GND
VCC
VCC3.3V
GND
GPIO2
R10
270R
D3
LED_GREEN
GND
Title
Size
A4
Number
Revision
Date:
2014.07.15.
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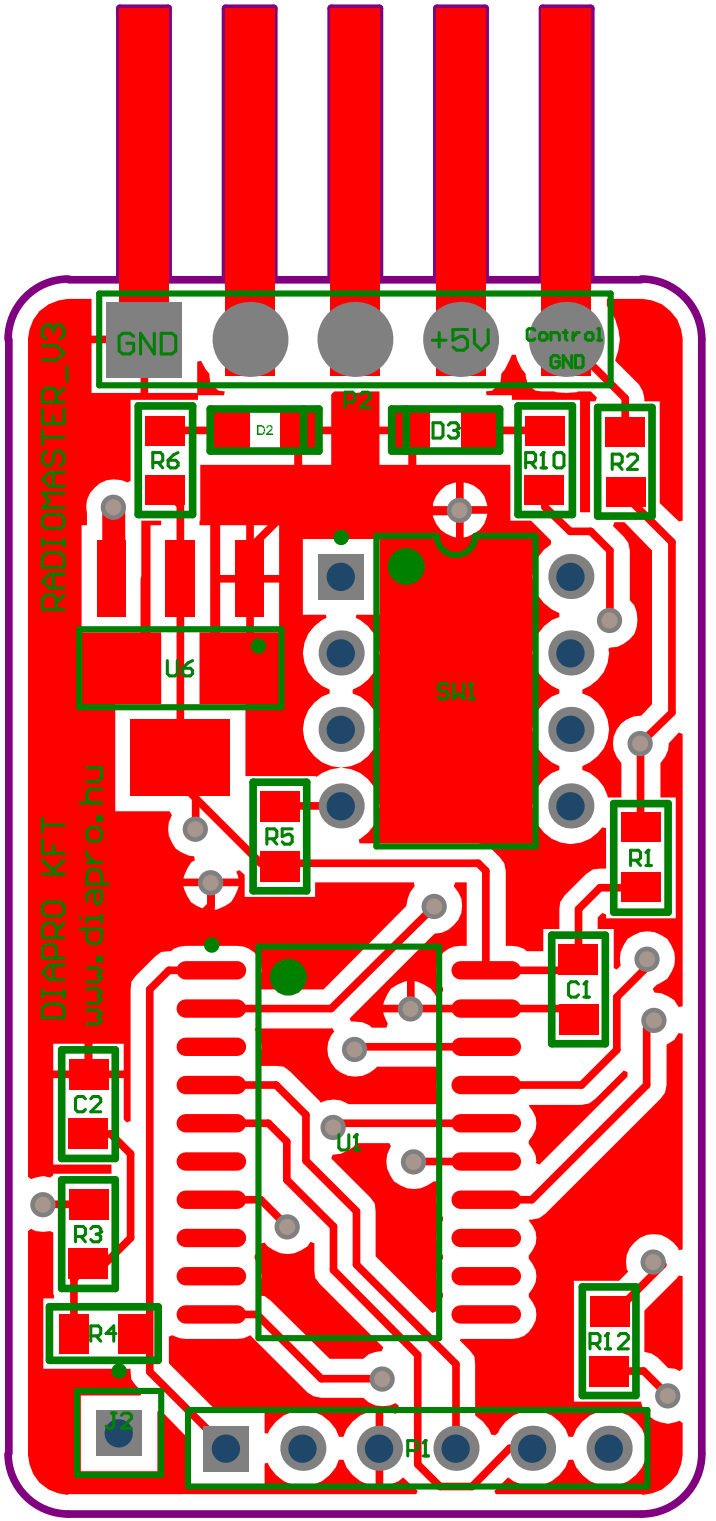
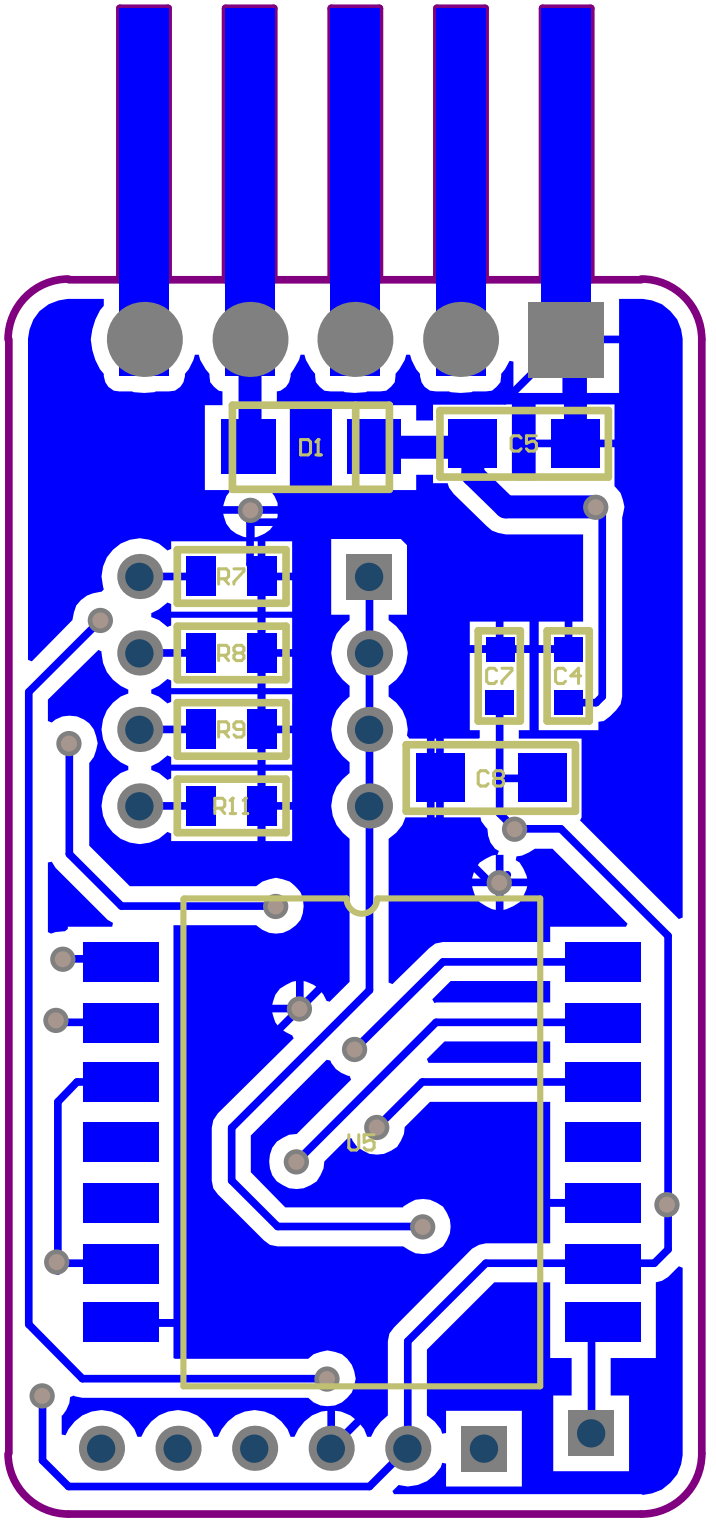
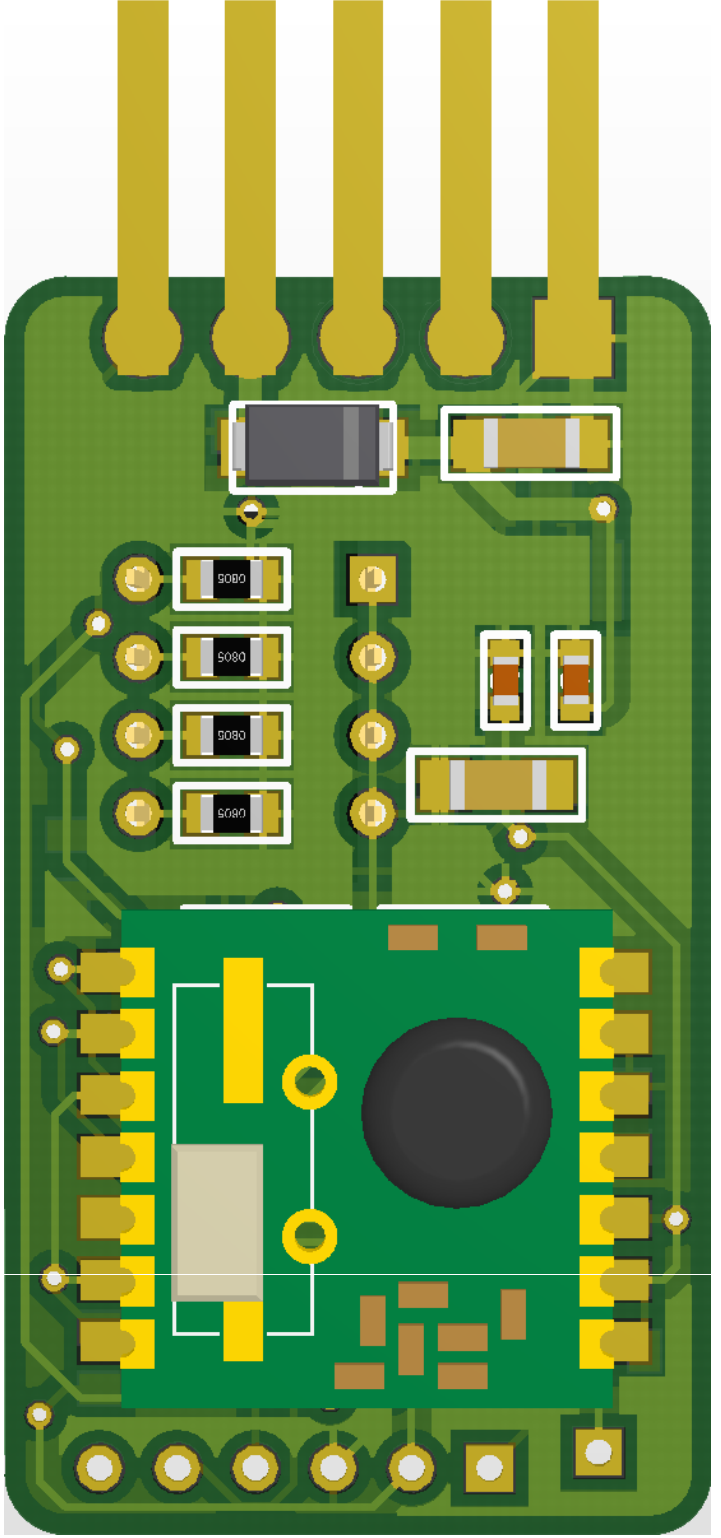
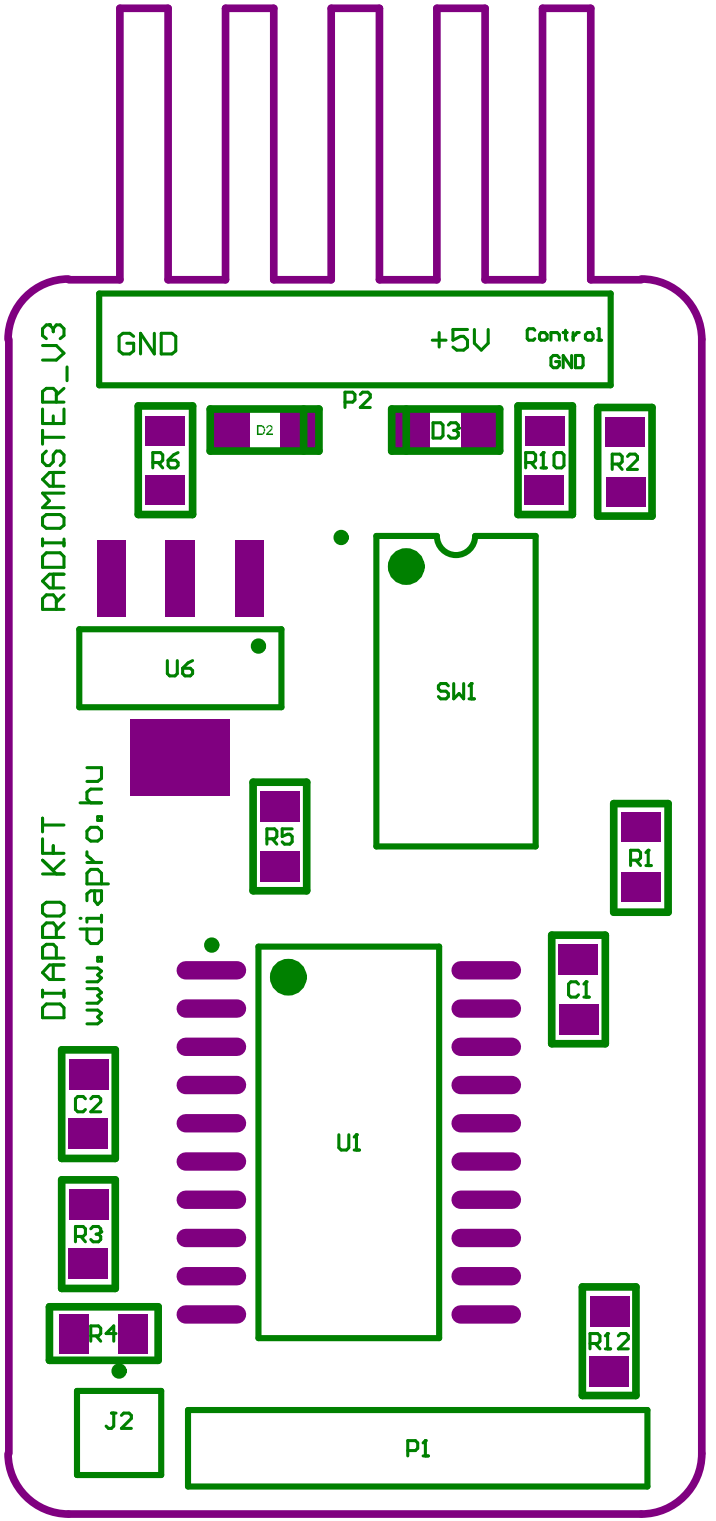
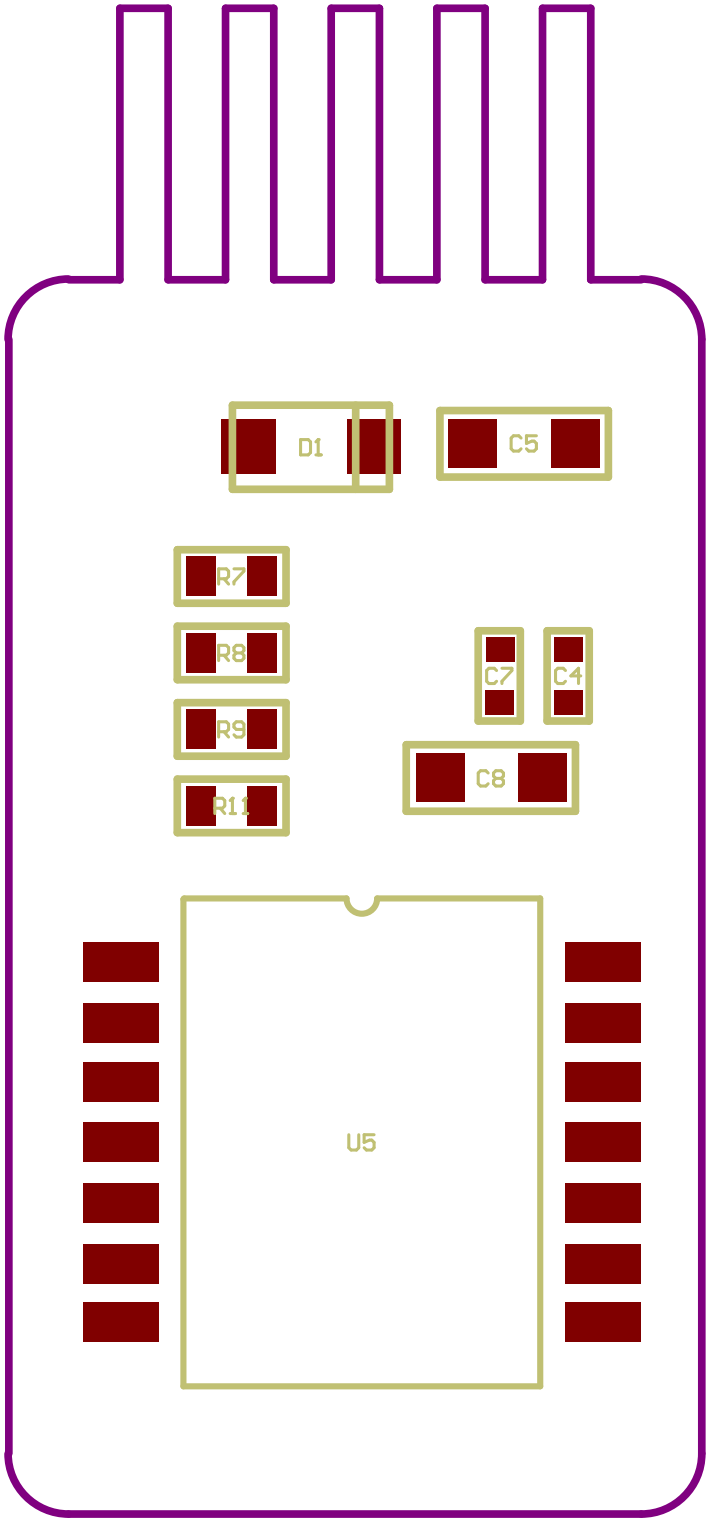

GND
+5V
Control
GND
P2
RADIOMASTER_U3
D2
D3
R6
R10
R2
U6
SW1
R5
R1
DIAPRO KFT
www.diapro.hu
C1
C2
U1
R3
R4
R12
J2
P1


D1
C5
R7
R8
R9
R11
C7
C4
C8
U5

GND
+5V
Control
GND
P2
RADIOMASTER_V3
DIAPRO KFT
www.diapro.hu
J2
P1


0805
0805
0805
0805


GND
+5V
Control
GND
P2
RADIOMASTER_V3
D2
D3
R6
R10
R2
U6
SW1
R5
R1
DIAPRO KFT
www.diapro.hu
C1
C2
U1
R3
R4
R12
J2
P1


D1
C5
R7
R8
R9
R11
C7
C4
C8
U5

Comment	Description	Designator	Footprint	LibRef	Order info	Quantity	T qés
100nF	Capacitor	C1, C2	FP_0805_CAP_060	Cap	TODO	2	10%
100nF	Capacitor	C4, C7	FP_0603_CAP_080	Cap	TODO	2	10%
10uF	Capacitor	C5, C8	FP_1206_CAP_085	Cap	82-07-81	2	20% X7R
DIODE_big		D1	FP_SMA DO214AC	DIODE_big		1	
LED_RED	Typical LED	D2	FP_0805_LED_RED	LED_R		1	
LED_GREEN	Typical LED	D3	FP_0805_LED_GREEN	LED_G		1	
ANT	Socket	J2	PIN1	Socket		1	
Header 6	Header, 6-Pin	P1	HDR1X6	Header 6		1	
Header 5H	Header, 5-Pin, Right Angle	P2	SORKAPOCS 5 P RM3.81 - no3d	Header 5H		1	
10k	Resistor	R1, R3, R5, R7, R8, R9, R11, R12	FP_0805_RES	Res3	TODO	8	5%
100R	Resistor	R2, R4	FP_0805_RES	Res3	TODO	2	5%
270R	Resistor	R6, R10	FP_0805_RES	Res3	TODO	2	5%
DIPSW4		SW1	DIP switch 4 TH	DIPSW4		1	
PIC24F16KA101-I/SO	16-Bit Flash Microcontroller with nanoWatt XLP Technology, 16KB Flash, 1.5KB SRAM, 20-Pin SOIC, Industrial Temperature	U1	SOIC-SO20_N	PIC24F16KA101-I/SO		1	
RFM12B	FM Module	U5	RFM12B-S1	RFM12B		1	
LD1117xx	LD1117xx 3,3V lin r	U6	SUPPLY_SOT223	LD1117xx	http://hu.mouser.c	1	