



Owl UHF 0.3 mechanical layout. All dimensions in mm.  
 Upper illustration: As seen from the antenna connector side.  
 Lower illustration: As seen from top.

PCB thickness is 1.6 mm. Total thickness with cabled connector in H\_EXP is 15-16 mm.

LEDs (three pcs on the left) are 1 mm high and the light is directed towards left when seen from top.  
 Center of SMA-connector and LED light beam is 0.4 mm above the PCB.

H\_EXP:  
 Hirose DF11-16DP-2DSA  
 Mates with Hirose DF11-16DS-2C  
 1: PIC\_U5RX (port 1, 3.3V only)  
 2: GND  
 3: PIC\_U5TX (port 1, 3.3V only)  
 4: PIC\_CN6  
 5: PIC\_SDA5/PIC\_U2RX  
 6: PIC\_CN7  
 7: PIC\_SCL5/PIC\_U2TX  
 8: PIC\_U6RX (port 2, 5V tolerant)  
 9: PIC\_OC1  
 10: PIC\_U6TX (port 2, 5V tolerant)  
 11: PIC\_OC2  
 12: 3.3V\_OUT  
 13: VIN (8-17 V)  
 14: VIN (8-17 V)  
 15: GND  
 16: GND

H\_MAIN:  
 JST S5B-PH-KL  
 Mates with JST PHR-5  
 1: PIC\_U3RX\_RS232 (port 0, RS-232)  
 2: PIC\_U3TX\_RS232 (port 0, RS-232)  
 3: GND  
 4: VIN (8-17 V)  
 5: GND