

21 September 2021 – Revision V1

## Technical Datasheet : RH18 BLE Antenna

The design is using custom antenna Part Number: 904755 with Qorvo filter (Part number QPQ1907) for Bluetooth Low Energy application.

### Electrical Specifications (integrated performance)

Antenna Type:	Dipole
Frequency range:	2400-2500 MHz
Nominal Impedance:	50 ohm
Peak gain:	2.3 dBi (max)
Return Loss:	2400-2500 MHz < -10 dB
Radiation Pattern:	Omni
Polarization:	Linear
Stand Alone, Out-of-Band Filter Rejection <sup>(1)</sup> :	
925 - 2300 MHz	34 dB (min)
2300 – 2375 MHz	38 dB (min)
2505 – 2620 MHz	40 dB (min)
2620 – 7500 MHz	7 dB (min)

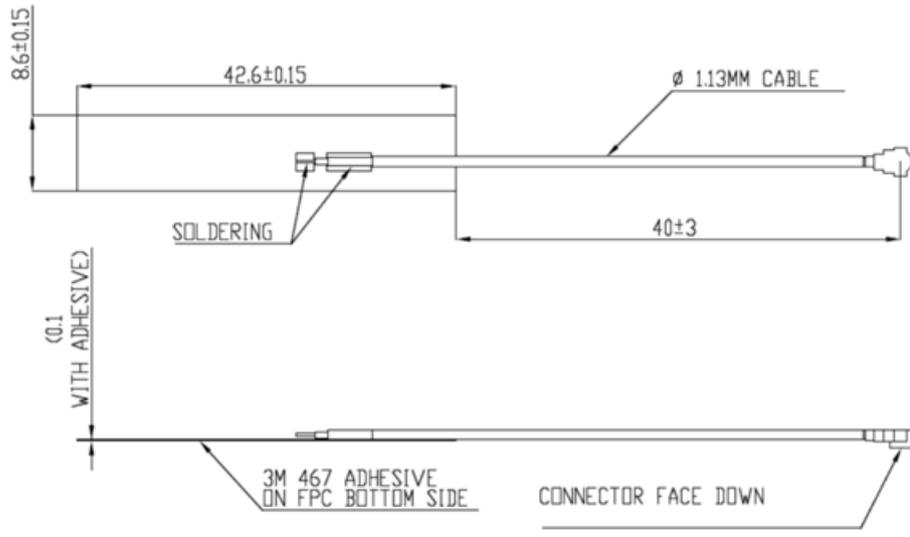
<sup>(1)</sup>: Filter Reference Qorvo QPQ1907

### Environmental Characteristics

Temperature Range:	-40 ~ 85 °C
RoHS, REACH, WEEE	

### Mechanical Drawing

Size:	42.6 x 8.6 x 0.15 mm
Connector Type:	1.13 mm cable with U.FL



**Radiation Pattern**

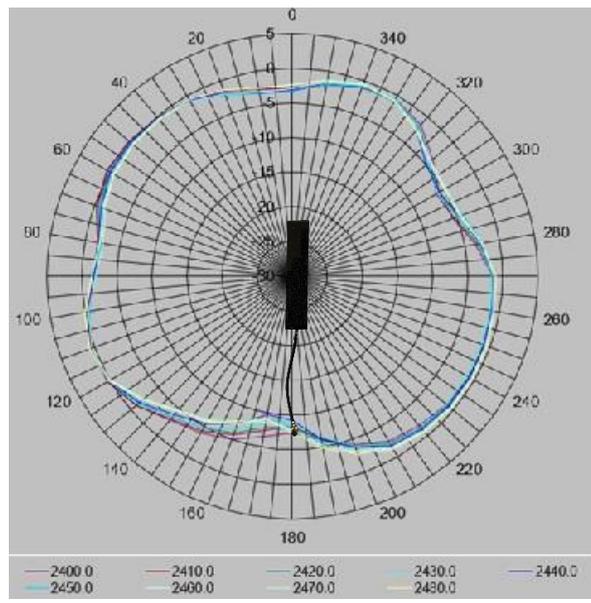


Figure 1: Typical Radiation Pattern in Horizontal Plane