

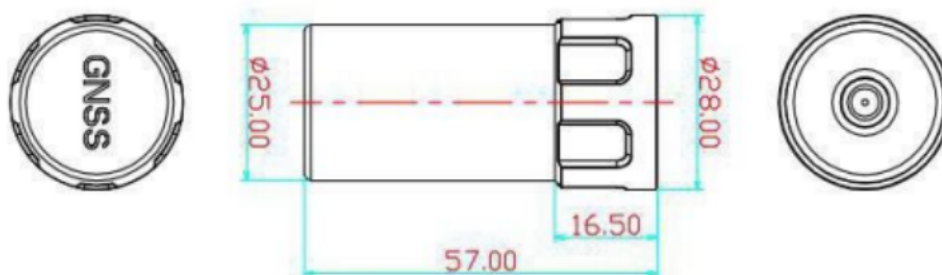


***Aerial Antenna for UAV  
Multi-band GNSS Module  
METTA-HELIX5-DR-11***

**1. Antenna image**



**2. Cylindrical Antenna Dimensions**



### 3. Antenna Specifications

<b>Antenna</b>	1	Constellations	GPS, BEIDOU, GLONASS, GALILEO
	2	Frequency	GPS: L1: $1575,42 \pm 1,023$ MHz L2: $1227 \pm 1.023$ MHz BEIDOU: B1: $1561 \pm 2.046$ MHz B2: $1207 \pm 2.046$ MHz B3: $1268 \pm 10,23$ MHz GLONASS: L1= $1602+0,5625*k$ (MHz) L2= $1246+0,4375*k$ (MHz) GALILEO: E1: 1575
	3	Frequency Range	1197-1278/1559-1612 MHz
	4	V.S.W.R.	$\leq 2.0$
	5	Axial Ratio	ElevationAngle90Degrees: $\leq 3$ ElevationAngle15Degrees: $\leq 5$
	6	Gain	ElevationAngle90Degree: $\geq 6$ ElevationAngle20Degree: $\geq 0$
	7	Front to Back Power	$\pm 60^\circ \geq 15$ dB
	8	Phase Center (mm)	$< 2$
	9	Impedance	50 $\Omega$
	10	Polarization	RHCP
<b>LNA</b>	1	LNA Gain	$38 \pm 2$ dB
	2	V.S.W.R.	$< 2$
	3	Noise Figure	$< 1.0$
	4	DC Voltage	3.3 ~ 18V
	5	Current	25 ~ 40 mA