

## **SPK-6E GNSS Helical Triband Antenna**

The SPK-6E is a multi-frequency high precision GNSS helical antenna compatible with GPS, BeiDou, and Galileo systems. It is suitable for high precision geodesy in UAV, handheld, robotic, and many other applications.

**Compact.** At just under 60mm and 18 grams, the SPK-6E is an excellent balance of light weight and small size where portability is key.

**Tri-Band.** The unique helical design allows reception on most modern GNSS bands including GPS L1/L2/L5, BeiDou B1/B2a/B2b, and Galileo E1/E5a/E5.

**Protected.** The antenna is IP67 rated and includes a compressive o-ring built into the base to protect the SMA interface against the harshest conditions.



Passive antenna paramo	GPS	BeiDou	Galileo	
Constellation Signals	L1/L2/L5	B1/B2a/B2b	E1/E5a/E5b	
Max gain	L1≥2.0dBi	B1≥2.0dBi	E1/23a/230 E1≥2.0dBi	
	L2≥1.0dBi	B2a≥1.5dBi	E5a≥1.5dBi	
	L5≥1.5dBi	B2b≥0.0dBi	E5b≥0.0dBi	
Polarization		RHCP		
Frequency	1150-127	1150-1278MHz and 1550-1610MHz		
Elevation Coverage		360°		
Output impedance		50Ω		
VSWR		≤2.0		
Axis ratio				
LNA parameter	•			
Active gain		35±2dB		
Noise figure		≤1.5dB		
Input VSWR		≤2.0		
Output VSWR		≤2.0		
Supply Voltage		3~5.5V		
Working Current		≤46mA		
<b>Mechanical Characteris</b>	stics			
Size		27.5 x 59.7mm		
Connector		SMA		
Weight		≤20g		
Waterproof Rating		IP67		

## TECHNICAL PARAMETERS



Operating Environment		
Operating Temperature	-45°C∼+70°C	
Storage Temperature	$-55^{\circ}\mathrm{C} \sim +85^{\circ}\mathrm{C}$	
Humidity	95% non-condensing	

## DIMENSIONAL DRAWING





