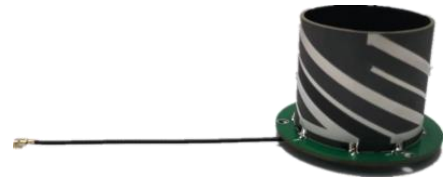


RT3004 Three system 7 band high precision helical Antenna

Features

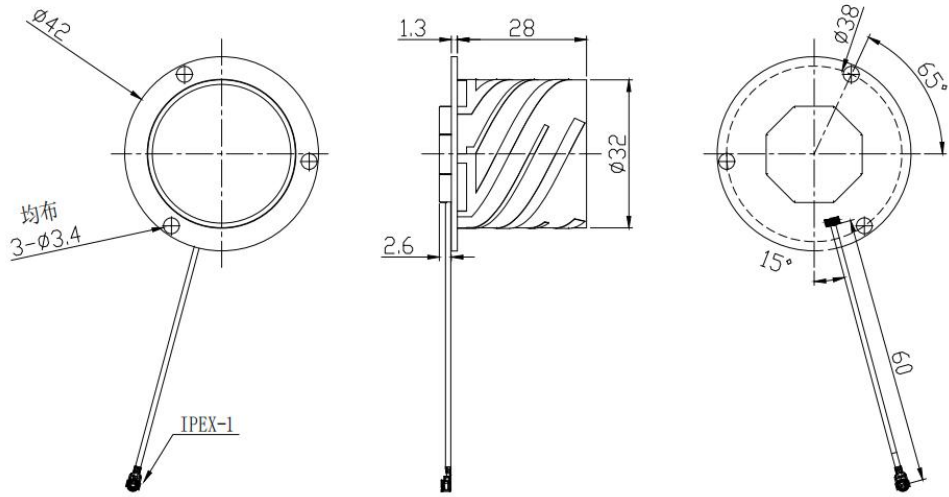


The antenna design adopts a four-arm helical structure, which has a stable phase center and improves the measurement accuracy;
 The antenna adopts a new material laser engraving design, which increases the reliability of the antenna and can achieve a lower antenna profile;
 The antenna gain is high, the beam pattern is wide, and it has a good reception effect for low-elevation-angle signals;
 The antenna is equipped with a high out-of-band suppression low-noise amplifier circuit, which can effectively resist external electromagnetic interference;
 The antenna is small in size, light in weight and low in power consumption, which can effectively reduce the load of the device and improve the battery life of the device

Application field

Can be widely used in various industrial drones and handheld devices such as tablets and body cameras.

Passive parameters		Mechanical properties	
Frequency range	GPS L1/L2 BDS B1/B2/B3 GLONASS L1/L2	Antenna size	Φ42*31.9mm
Polarization	RHCP	Weight	≤10g
Gain	≥2.5dBi@仰角90°	Connector type	IPEX 1
Axial ratio	≤3dB@仰角90°	Cable length	RF1.13-60mm
Horizontal coverage angle	360°	Environmental characteristics	
VSWR	≤2.0	Relative humidity	95%
Active parameters		Operating temperature	-40°C~+85°C
LNA Gain	40±2dB (custom)	storage temperature	-55°C~+85°C
In-band flatness	1.5dB		
Noise Figure	≤2.0dB		
Operating Voltage	3-12VDC		
Working current	≤40mA		
output standing wave	≤2.0		



Product dimension (unit: mm, Tolerance not noted by $\pm 0.3\text{mm}$)