

The SPK6618H is a multi-frequency high precision GNSS survey antenna compatible with GPS, GLONASS, BEIDOU, and GALILEO systems. It is suitable for high precision geodesy including surveying, base and reference stations, road construction, marine survey, terminal container operation and others.

Strong antenna signal. The antenna has a high gain and wide beam pattern, which ensures good receiving effect even for signals received at a low elevation, up to and including severe occlusion situations.

High precision. A multi-feed design scheme is used to ensure the coincidence of phase center and geometric center, and minimizes the influence of the antenna on measurements.

Strong anti-interference. The antenna element design helps reduce multipath, aiding reception in complex work environments.

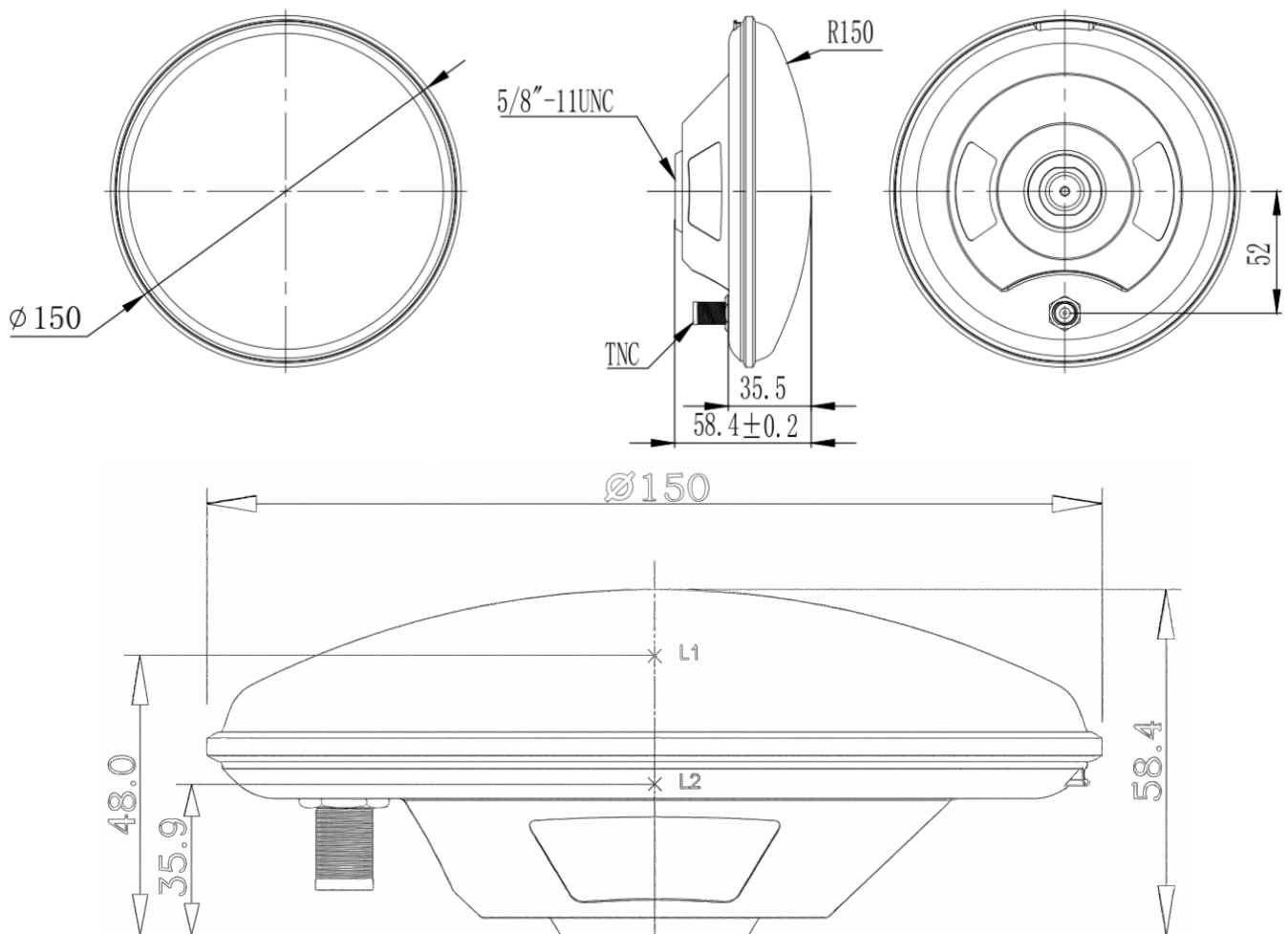


TECHNICAL PARAMETERS

Passive antenna parameter				
Constellation Signals	GPS L1/L2/L5	GLONASS G1/G2	BEIDOU B1/B2/B3	GALILEO E1/E5a/E5b/E6
Max gain	L1≥5.5dBi L2≥5.0dBi L5≥2.5dBi	G1≥5.0dBi G2≥4.0dBi	B1≥5.0dBi B2≥5.0dBi B3≥3.5dBi	E1≥5.5dBi E5a≥2.5dBi E5b≥5.0dBi E6≥2.5dBi
Polarization	RHCP			
Frequency	1150-1300MHz and 1520-1610MHz			
Elevation Coverage	360°			
Output impedance	50Ω			
VSWR	≤1.5			
Axis ratio	≤3dB			
Phase center error	<±2mm			
LNA parameter				
Active gain	38±2dB			
Noise figure	≤1.8dB			
Input VSWR	≤2.0			
Output VSWR	≤2.0			

Delay of Differential Transmission	$\leq 5\text{ns}$
Supply Voltage	3~5.5V
Working Current	$\leq 48\text{mA}$
Mechanical Characteristics	
Size	150 x 58.4mm
Connector	TNC-K
Weight	$\leq 360\text{g}$
Waterproof Rating	IP67
Operating Environment	
Operating Temperature	$-45^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Storage Temperature	$-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Humidity	95% non-condensing

DIMENSIONAL DRAWING



Shown with NGS Calibrated Phase Centers ([Source](#))



