

战术级IMU



IMU4000-02

Model	IMU4000-02 (low-range)	
Sensor parameter	Gyro	Accelerometer
Measurement range	± 4000 deg/s axis 1-2-3	$\pm 8g$ axis 1,2,3
Bias repeatability	≤ 50 deg/hr 1σ (On-Off repeatability at Tconst) ≤ 300 deg/hr (over temperature range)	$\leq 400\mu g$ (On-Off repeatability at Tconst) < 8 mg (over temperature)
Bias instability	≤ 2.5 deg/hr (Allan Variance minimum at Tconst.)	$< 120\mu g$ (Allan Variance minimum at Tconst.)
Random Walk	≤ 0.15 deg/ $\sqrt{\text{hr}}$ (Allan variance)	$< 0.08\text{m/s}/\sqrt{\text{hr}}$ (Allan variance) Density: $90\mu/\sqrt{\text{hz}}$
Scale Factor repeatability	< 3500 ppm	3000 ppm
Band Width, Phase (When Phase Shift=-90)	-	
Shock	-	
Vibration	6G rms 20~2000Hz	
Operating Temperature	-20~+50 (-40~+71) ° C	
Size	diameter: 60mm height: 40mm	
Weight	200g	