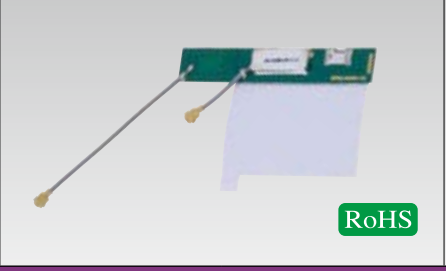
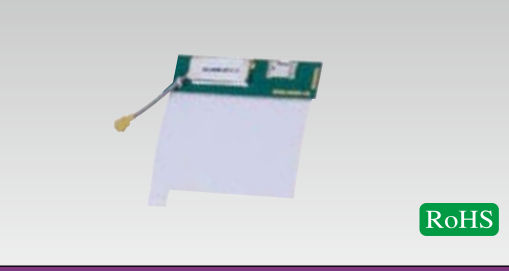
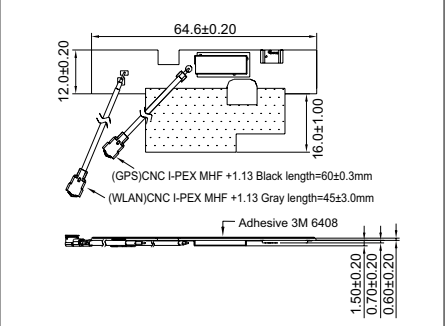
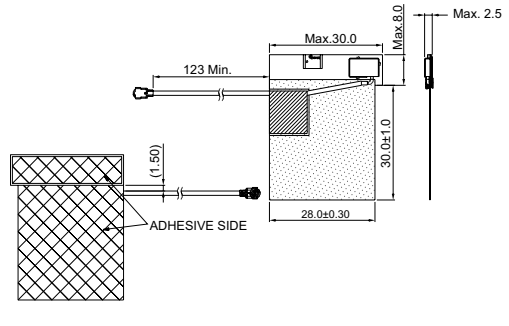


Application	PND, Notebook, Tablet, Digital TV, Mobile Phone, Handheld Device	
Product name	GPSWLAN09N-S1-00-A	GPS401N-S3-00-A
Appearance	 RoHS	 RoHS
Specification		
Antenna performance		
Frequency Range (MHz)	1.565 ~ 1.585	1575 ~ 1615
Polarization	Linear	Linear
V.S.W.R	< 2.0	< 2.0
Peak gain (dBi)	0.05	-0.82
Efficiency (%)	45.5	35.76
Filter / LNA Performance		
Center Frequency (MHz)	1575.42±1.023	1593
Operation Voltage (V)	1.8±0.3	3.0±0.3
LNA DC Current (mA)	2.2±1	4±1.5
LNA Amplifier Gain (dB)	17.5±3	19±3
Noise figure including filter and LNA @ambient temperature	2.0 typ.	2.0 typ.
Overall Performance		
Center Frequency (MHz)	1575.42±1.023	1593
Output Impedance (Ω)	50	50
Operation Voltage(V)	3.0±0.3	3.0±0.3
Overall Average Gain (dB)	18 typ.	18.18 typ.
WLAN Antenna Performance		
Frequency Range (MHz)	2400 ~ 2500	
Polarization	Linear	
V.S.W.R	≤ 2.0	
Antenna Gain (dBi)	Peak: ≤3.20	Avg: -2.47 ~ -1.81
Efficiency (%)	56 ~ 66	
Azimuth Pattern	Near-Omni-directional	
Testing condition	Antenna gain is including the cable and the connector	
Dimension (mm)	64.6 x 12 x 1.5	30 x 8 x 2.5
	 <p>64.6±0.20 12.0±0.20 16.0±1.00 (GPS)CNC I-PEX MHF +1.13 Black length=60±0.3mm (WLAN)CNC I-PEX MHF +1.13 Gray length=45±3.0mm Adhesive 3M 6408 1.50±0.20 0.70±0.20 0.60±0.20</p>	 <p>Max. 30.0 Max. 8.0 Max. 2.5 123 Min. 30.0±1.0 28.0±0.30 ADHESIVE SIDE (1.50)</p>