

Approved by:

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SPECIFICATION

PRODUCT: SAW FILTER

MODEL: HDF56A



SHOULDER ELECTRONICS LIMITED

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一、GPS 天线特性 the Specification for GPS Antenna

型号 特性	DAS1575R(25×25×4)
中心频率 Center Frequency	1575.42MHz±3 MHz
电压驻波比 V.S.W.R	1.5:1
带宽 Band Width	±5 MHz
带外衰减 Attenuation	$f_0 \pm 100\text{MHz} > 30\text{dB}$
阻抗 Impendence	50 ohm
最高增益 Peak Gain	$> 3\text{dBic}$ Based on 7×7cm ground plane
增益范围 Gain Coverage	$> -4\text{dBic}$ at $-90^\circ < 0 < +90^\circ$ (over 75% Volume)
天线极化 Polarization	RHCP

二、放大器规格 LNA Specification

型号 特性	DAM1575A ₁ E ₁
放大器增益 LNA Gain (Without cable)	27dB Typical
噪声系数 Noise Figure	1.5dB Max
输出电压驻波比 V.S.W.R	< 2.0
直流电压 DC Voltage	3V±0.3 (optional)
直流电流 DC current	15mA Max(optional)

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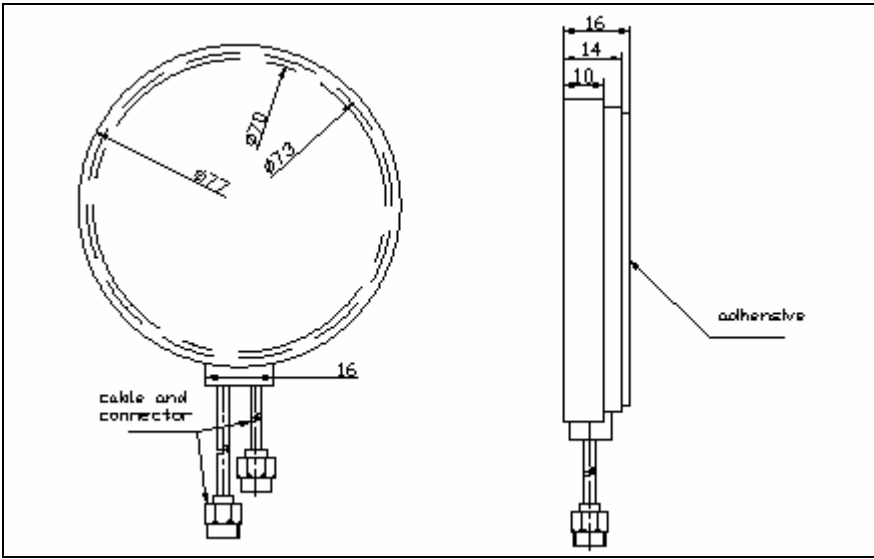
三、GSM 天线特性 the Specification for GSM Antenna

型号 特性	-----
工作频率 Working Frequency	824MHz~960MHz 1850MHz~1990MHz
电压驻波比 V.S.W.R	2:1
阻抗 Impendence	50 ohm
最高增益 Peak Gain	2dBi@900 MHz 2dBi@1800 MHz
辐射方位 Azimuth	Omni-directional
天线极化 Polarization	Linear Polarization

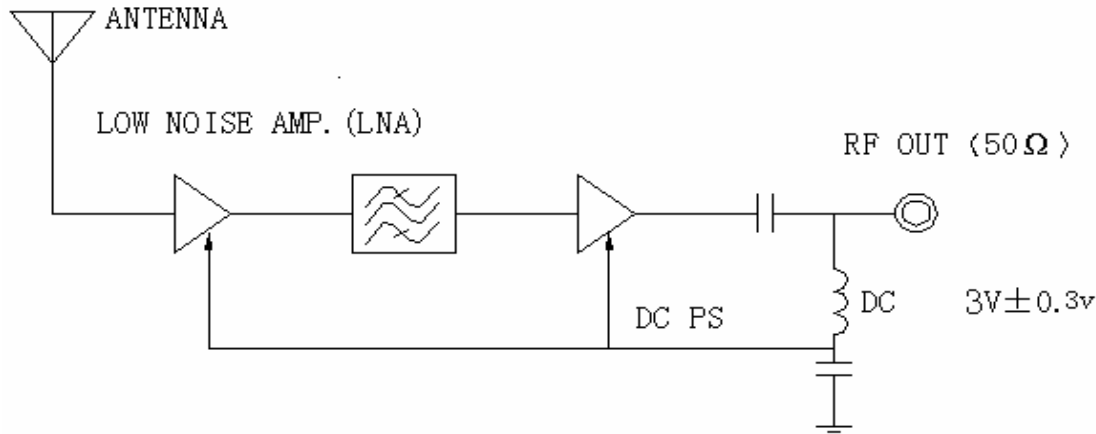
四、结构特性 Mechanical Specification

型号 特性	
重量 Weight	<160(克)gram
外型尺寸 Size	Φ77mm×14mm
电缆 Cable	RG174 0.4meter long (optional)
连接器型号 Connector	GPS : SMA GSM : FME
固定方式 Mounting	Adhesive type
外壳颜色 Housing	黑 Black

四、尺寸图 Dimension (mm)



五、低噪声放大器原理 Low Noise Amplify Schematic



六、环境特性 Environmental Specification

工作温度 Working Temp	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	
极限温度 Storage Temp	$-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$	
振动 Vibration	Sine sweep 1g(0-p) 10~50~10Hz each axis	
湿度 Humidity	95%~100%RH	
防水 Weatherproof	100% Waterproof	
可靠性 MTBF=1 $\times 10^{-6}$ /pc.hr	$40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 数量 2000pcs	DC=5V $\pm 0.3\text{V}$ 持续时间为 480h