

Approved by:

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# ***SPECIFICATION***

**PRODUCT: DIELECTRIC FILTER**

**MODEL: DAMDA1E1G6**



**SHOULDER ELECTRONICS LIMITED**

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### 一、 the Specification for GPS Antenna

Type Trait	DAS1575R(25 × 25 × 4)
Center Frequency	1575.42MHz ± 3 MHz
V.S.W.R	1.5:1
Band Width	± 5 MHz
Attenuation	$f_0 \pm 100\text{MHz} > 30\text{dB}$
Impedence	50 ohm
Peak Gain	> 3dBic      Based on 7 × 7cm ground plane
Gain Coverage	> -4dBic at -90 ° < 0 < +90 ° (over 75% Volume)
Polarization	RHCP

### 二、 LNA Specification

Type Trait	DAM1575A <sub>1</sub> E <sub>1</sub>
LNA Gain (Without cable)	27dB      Typical
Noise Figure	1.5dB      Max
V.S.W.R	< 2.0
DC Voltage	3V ± 0.3 (optional)
DC current	15mA Max(optional)

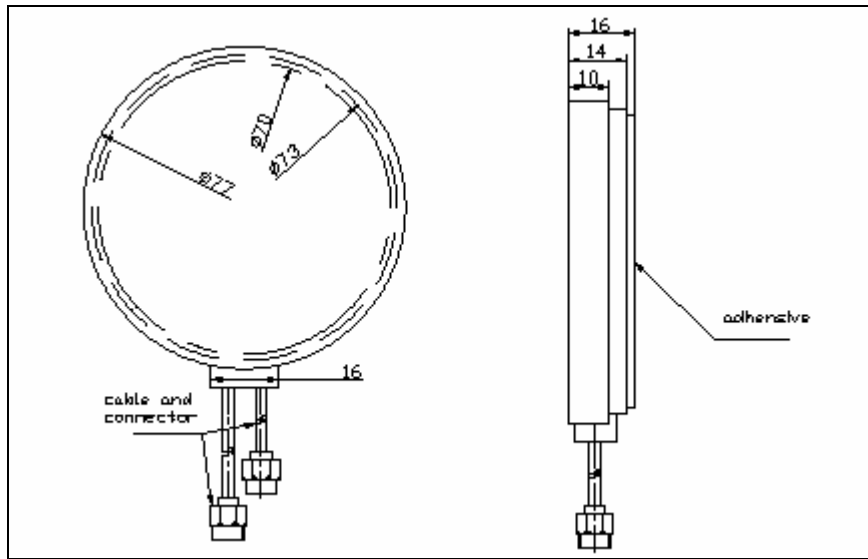
三、 the Specification for GSM Antenna

Type Trait	-----
Working Frequency	824MHz~960MHz 1850MHz~1990MHz
V.S.W.R	2:1
Impedence	50 ohm
Peak Gain	2dBi@900 MHz 2dBi@1800 MHz
Azimuth	Omni-directional
Polarization	Linear Polarization

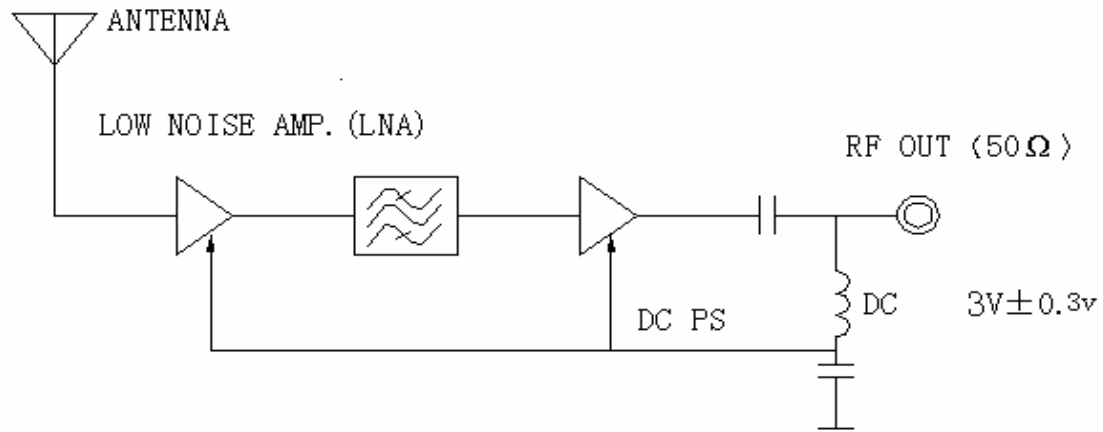
四、 Mechanical Specification

Type Trait	
Weight	< 160(克)gram
Size	77mm × 14mm
Cable	RG174 0.4meter long (optional)
Connector	GPS : SMA GSM : FME
Mounting	Adhesive type
Housing	Black

四、 Dimension ( mm )



五、 Low Noise Amplify Schematic



六、 Environmental Specification

Working Temp	-40 ~+85
Storage Temp	-40 ~+100
Vibration	Sine sweep 1g(0-p) 10~50~10Hz each axis
Humidity	95%~100%RH
Weatherproof	100% Waterproof
MTBF=1 × 10 <sup>-6</sup> /pc.hr	40 ± 5      DC=5V ± 0.3V Amount :2000pcs      Hour:480h