Directional Antenna

DataSheet

EN_03A



SIGLENT TECHNOLOGIES CO.,LTD

General Description

The Siglent Technology's handheld directional antenna covers a frequency range of 10MHz~26.5GHz, making it easy to carry, transport, and operate. It is suitable for external measurement and is used for locating transmission and interference sources in security and radio management departments. It can also be applied to EMC testing, field strength scanning, base station detection and maintenance, substation power system detection and maintenance, automotive EMI detection, medical equipment radiation, pseudo base station detection equipment, and other fields.

The DA1 antenna kit includes directional antennas in three different frequency bands of 10MHz-8GHz and a built-in broadband low-noise amplifier handle; The antenna and handle are matched in a blind insertion manner, and can be quickly plugged in and out as a whole, enabling the testing of signals in vertical or horizontal polarization directions; A single antenna can also be directly connected to the device through an N-type female head for use; The controller is equipped with a built-in broadband low-noise amplifier and rechargeable battery, and is designed with two working modes: "direct" and "amplification" to improve the dynamic range of the received signal; An external N-type male stable phase low loss flexible RF cable is connected to the spectrum analyzer for use.

The DA2 antenna kit includes a 6G-26.5GHz directional antenna and an integrated built-in broadband low-noise amplifier handle. The handle is equipped with a built-in broadband low-noise amplifier and a rechargeable battery.

Model and Main index

Model	DA13(LP)	DA12(UHF)	DA11(VHF)	DA2(SHF)
Frequency Range	500MHz-8GHz	200MHz–500MHz	10MHz–200MHz	6GHz~26.5GHz
Field Strength	> 10 V/m			
SWR	< 2.5 (2 typ.)			
Polarization	Horizontal, Vertical			
Antenna Interface	50Ω/N type, female			Integration
Handle Interface	N type, male			2.92 type, male
Amplifier	12dB			22dB
Tripod interface	1/4 Inch			
Net Weight	1.08kg	0.86kg	1.05kg	0.85kg

Appearance

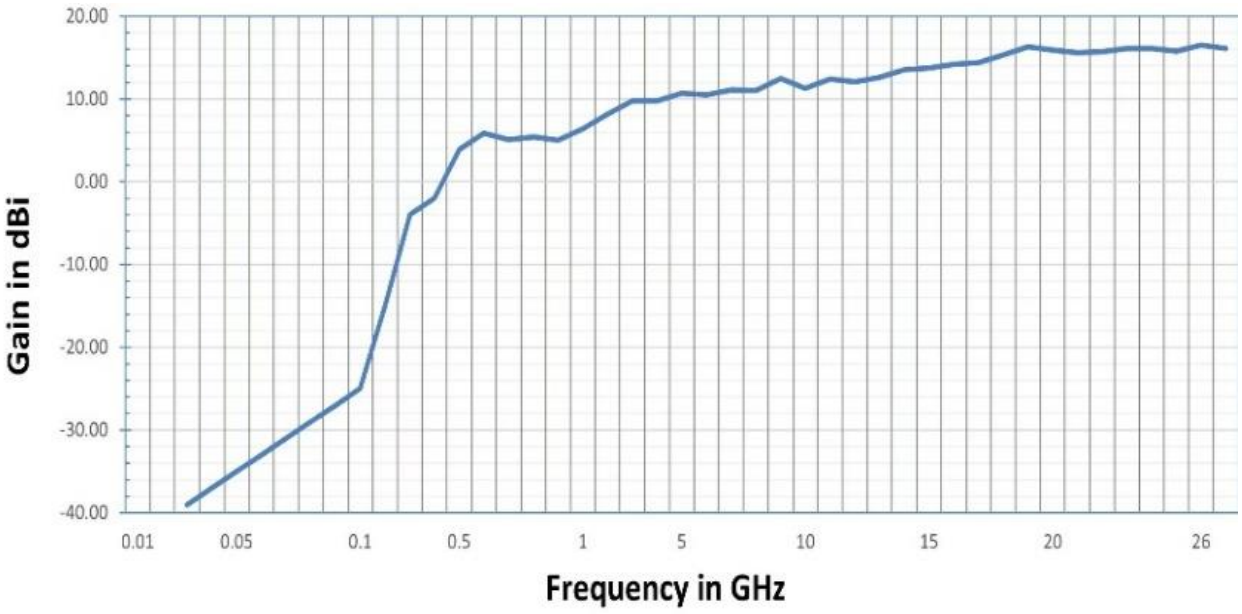
DA13：LP 500MHz – 8GHz	
	 

DA12：UHF 200MHz – 500MHz	
	 

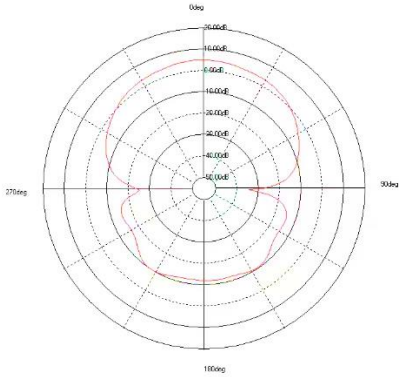
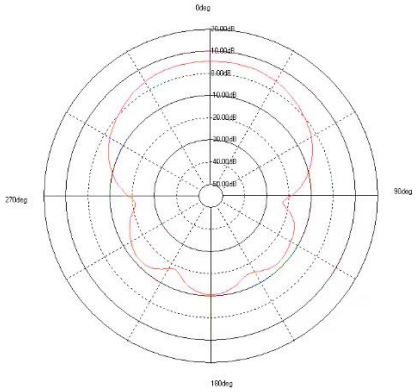
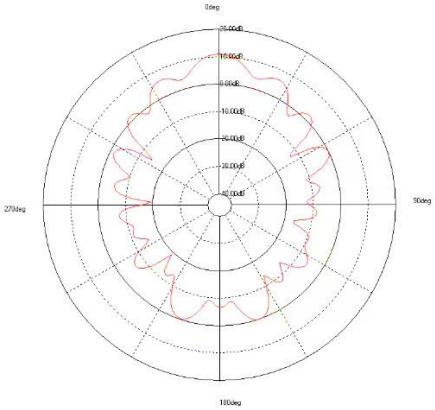
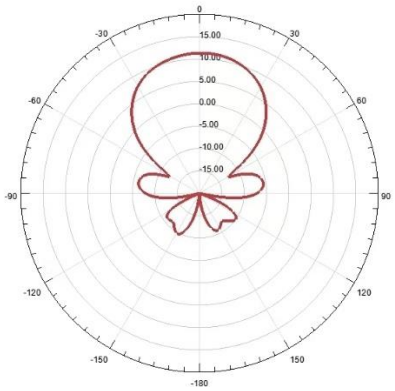
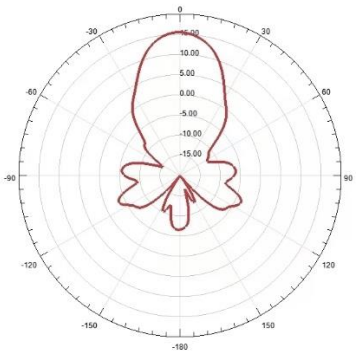
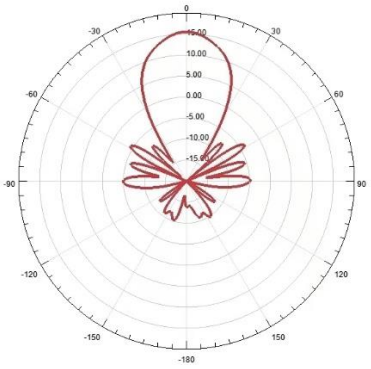
DA11：VHF 10MHz – 200MHz	
	 

DA2：SHF 6GHz – 26.5GHz	
	
DA1 Handle	**Case**
	

Typical gain chart



Typical pattern

500 MHz	800 MHz
	
3 GHz	**8 GHz**
	
18 GHz	**26 GHz**
	

Order Information

Product	Description	Order Number
Antenna set	VHF(10 MHz~200 MHz), UHF(200 MHz~500 MHz), LP(500 MHz~8 GHz), Handle Amplifier (10 dB，9 kHz~8 GHz)	ANT-DA1
VHF antenna	VHF(10 MHz~200 MHz), Handle Amplifier (10 dB，9 kHz~8 GHz)	ANT-DA11
UHF antenna	UHF(200 MHz~500 MHz), Handle Amplifier (10 dB，9 kHz~8 GHz)	ANT-DA12
LP antenna	LP(500 MHz~8 GHz), Handle Amplifier (10 dB，9 kHz~8 GHz)	ANT-DA13
SHF antenna	SHF(6 GHz~26.5 GHz), Handle Amplifier (10 dB，6 GHz~43.5 GHz)	ANT-DA2



About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, RF/MW signal generators, spectrum analyzers, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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