M2M / IOT
VIDEO & BROADBAND WIRELESS SOLUTIONS

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PanAnt™

14dB Wide Band Antenna for Amplifiers, Boosters, Repeaters, Modems, Hotspots

Main Features

- Perfect as an internal antenna for amplifiers/repeaters/boosters (GSM/PCS/DCS/2G/3G/4G/AWS/UMTS/WiMAX), direct-connect antenna for cellular devices such as cell phones, modems, and mobile hotspots, direct-connect antenna for Wi-Fi devices, and direct-connect antenna for WiMAX devices
- Very wide operational bandwidth of 700MHz to 2900MHz. Peak gain of 14.4 dB. Directional radiation type with wall type mount
- Nominal impedance of 50 Ohms with vertical polarization and recommended mainly for indoors/outdoors use
- All-weather protected with wind resistance up to 140 mph (225 kmh) and operating temperature of -40°F to 185°F (-40°C to 185°C). Horizontal radiation pattern of 50°
- Made in the USA with high quality components and skilled craftsmanship. One year manufacturer warranty included

Data Sheet and Technical Specifications

Trademark Name	**PanAnt™**
Part Number / SKU	PNA-50-OHM
UPC	633643348262
Applications	Internal/external antenna for amplifiers/repeaters/boosters (GSM/PCS/DCS/2G/3G/4G/AWS/UMTS/WiMAX), direct-connect antenna for cellular devices such as cell phones, modems, and mobile hotspots, direct-connect antenna for Wi-Fi devices, and direct-connect antenna for WiMAX devices
Environment	Indoors/Outdoors
Radiation Type	Omnidirectional
Mount Type	Desktop/Magnetic
Connector Type	SMA-Female
Bandwidth	700MHz to 5200MHz
Nominal Gain at	6 dB

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750MHz	
Nominal Gain at 800MHz	6.2 dB
Nominal Gain at 850MHz	6.4 dB
Nominal Gain at 900MHz	12.6 dB
Nominal Gain at 1700MHz	13 dB
Nominal Gain at 1800MHz	13.2 dB
Nominal Gain at 1900MHz	13.4 dB
Nominal Gain at 2100MHz	13.6 dB
Nominal Gain at 24000MHz	13.8 dB
Nominal Gain at 2500MHz	14 dB
Nominal Gain at 2600MHz	14.2 dB
Nominal Gain at 2700MHz	14.4 dB
Nominal Gain at 3500MHz	15 dB
Standing Wave Ratio (VSWR) at 750MHz	1.4:1 typical (1.8:1 max)
Standing Wave Ratio (VSWR) at 800MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 850MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 900MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 1700MHz	1.1:1 typical (1.3:1 max)
Standing Wave Ratio (VSWR) at	1.1:1 typical (1.3:1 max)

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1800MHz	
Standing Wave Ratio (VSWR) at 1900MHz	1.1:1 typical (1.3:1 max)
Standing Wave Ratio (VSWR) at 2100MHz	1.1:1 typical (1.2:1 max)
Standing Wave Ratio (VSWR) at 24000MHz	1.1:1 typical (1.2:1 max)
Standing Wave Ratio (VSWR) at 2500MHz	1.1:1 typical (1.2:1 max)
Standing Wave Ratio (VSWR) at 2600MHz	1.1:1 typical (1.2:1 max)
Standing Wave Ratio (VSWR) at 2700MHz	1.2:1 typical (1.3:1 max)
Standing Wave Ratio (VSWR) at 3500MHz	1.2:1 typical (1.3:1 max)
Nominal Impedance	50 Ohms
Front-Back Ratio	37 dB
Polarization	Vertical
Horizontal Beamwidth	50°
Vertical Beamwidth	35°
Maximum Continuous Applicable Power	75 W
Power Requirements	None (passive antenna)
Net Weight (Mount Included when applicable)	2 lbs (910 g)
Dimensions (Height x Width x Depth)	12.5 x 7.8 x 2.7 in (31.25 x 19.5 x 6.75 cm)
Wind Rate	140 mph (225 kmh)

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Resistance	
Lightning Protection	DC-Shorted
Radome Material	UV-Protected ABS Plastic
Operating Temperature	-40°F to 185°F (-40°C to 185°C)
Other Features	All-weather protected
Production Status	**Active**

PanAnt™ Radiation Patterns and Additional Diagrams