

EMPatch-V™

5dB Wide Band Antenna for Amplifiers, Boosters, Repeaters, Modems, Hotspots



The EMPatch-V™ is a top quality, omnidirectional antenna that can be used 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. It is meant for the indoors and the mount type is for glass (via velcro). The EMPatch-V™ has a bandwidth of 700MHz to 5200MHz and a peak gain of 5.4 dB. Its nominal impedance is 50 Ohms and its connector type is FME-Female. The EMPatch-V™ weighs 4.9 ozs (140 g) and measures 4.4 x 2.3 x 0.4 in (11 x 5.75 x 1 cm). The EMPatch-V™ is a durable, high-efficiency antenna with top-notch features and performance, and it's made in the USA with high quality components and skilled craftsmanship.

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 5200MHz. Peak gain of 5.4 dB. Omnidirectional radiation type with glass (via velcro) type mount
- Nominal impedance of 50 Ohms with vertical polarization and recommended mainly for indoors use
- Cable included: 10 feet (3 meters) with wind resistance up to N/A and operating temperature of -40°F to 185°F (-40°C to 185°C). Horizontal radiation pattern of 360°
- Made in the USA with high quality components and skilled craftsmanship. One year manufacturer warranty included

Data Sheet and Technical Specifications

Trademark Name	EMPatch-V™
Part Number / SKU	EMPV-50-OHM
UPC	633643377026
Applications	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
Environment	Indoors

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Radiation Type	Omnidirectional
Mount Type	Glass (via Velcro)
Connector Type	FME-Female
Bandwidth	700MHz to 5200MHz
Nominal Gain at 750MHz	3 dB
Nominal Gain at 800MHz	3.2 dB
Nominal Gain at 850MHz	3.4 dB
Nominal Gain at 900MHz	3.6 dB
Nominal Gain at 1700MHz	4 dB
Nominal Gain at 1800MHz	4.2 dB
Nominal Gain at 1900MHz	4.4 dB
Nominal Gain at 2100MHz	4.6 dB
Nominal Gain at 2400MHz	4.8 dB
Nominal Gain at 2500MHz	5 dB
Nominal Gain at 2600MHz	5.2 dB
Nominal Gain at 2700MHz	5.4 dB
Nominal Gain at 3500MHz	6 dB
Standing Wave Ratio (VSWR) at 750MHz	1.7:1 typical (2.1:1 max)
Standing Wave Ratio (VSWR) at 800MHz	1.7:1 typical (2.1:1 max)

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Standing Wave Ratio (VSWR) at 850MHz	1.6:1 typical (2:1 max)
Standing Wave Ratio (VSWR) at 900MHz	1.6:1 typical (1.9:1 max)
Standing Wave Ratio (VSWR) at 1700MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 1800MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 1900MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 2100MHz	1.1:1 typical (1.3:1 max)
Standing Wave Ratio (VSWR) at 2400MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 2500MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 2600MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 2700MHz	1.2:1 typical (1.4:1 max)
Standing Wave Ratio (VSWR) at 3500MHz	1.3:1 typical (1.6:1 max)
Nominal Impedance	50 Ohms
Front-Back Ratio	N/A

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Polarization	Vertical
Horizontal Beamwidth	360°
Vertical Beamwidth	180°
Maximum Continuous Applicable Power	55 W
Power Requirements	None (passive antenna)
Net Weight (Mount Included when applicable)	4.9 ozs (140 g)
Dimensions (Height x Width x Depth)	4.4 x 2.3 x 0.4 in (11 x 5.75 x 1 cm)
Wind Rate Resistance	N/A
Lightning Protection	N/A
Radome Material	UV-Protected ABS Plastic
Operating Temperature	-40°F to 185°F (-40°C to 185°C)
Other Features	Cable included: 10 feet (3 meters)
Production Status	Active