

Stub Antennas



Pharad's high performance stub antennas have been designed as alternatives to common, low performing 'rubber ducky' and stub antennas. The Pharad designed Stub Antennas provide high performance radiating apertures that attach to small, pocket sized radios and multi-rotorcopter drones and UAVs. The stub antenna's unibody construction with an SMA male connector provides a reliable, waterproof antenna assembly that is substantially more reliable and robust than mass market stub antennas. Additionally, the highly efficient Pharad antennas provide the best electromagnetic performance of any available stub antenna. The Pharad Stub Antenna offering includes uniquely broadband models previously unavailable in such a small package.

Stub Antenna Products

| Application | UHF | LTE | GSM/Cellular | L-, S-, & C-band |
|------------------|-----------------------|---|--|--|
| Model # | SA-420-575 | SA-700-3000 | SA-800-2700 | SA-1400-5900 |
| Frequency | 420 – 575 MHz | 700 – 3000 MHz | 800 – 2700 MHz | 1400 – 5900 MHz |
| Gain | -5.5 dBi @ 480 MHz | -3.0 dBi @ 700 MHz 0.0 dBi @ 800 MHz -3.0 dBi @ 1700 MHz -2.0 dBi @ 1900 MHz -4.0 dBi @ 2600 MHz -4.0 dBi @ 3000 MHz | -3.3 dBi @ 800 MHz -3.0 dBi @ 900 MHz 1.3 dBi @ 1800 MHz 0.5 dBi @ 2100 MHz 1.5 dBi @ 2400 MHz 2.1 dBi @ 2600 MHz | 0.3 dBi @ 1400 MHz 0.5 dBi @ 1700 MHz 1.0 dBi @ 2400 MHz 0.7 dBi @ 4400 MHz 1.3 dBi @ 5800 MHz |
| VSWR (in band) | < 2.5:1 | < 3:1 | < 3:1 | < 3:1 |
| Polarization | Vertical | Vertical | Vertical | Vertical |
| Size (L x D x W) | 2.65" x 0.52" x 0.43" | 2.65" x 0.52" x 0.43" | 2.65" x 0.52" x 0.43" | 2.65" x 0.52" x 0.43" |
| Weight | 0.35 ounces | 0.35 ounces | 0.35 ounces | 0.35 ounces |
| Connector | SMA Male | SMA Male | SMA Male | SMA Male |

| Application | L- & S-band | WLAN/WiFi | UWB |
|--------------|--|--|---|
| Model # | SA-1755-2270 | SA-2400/5800 | SA-3000-10000 |
| Frequency | 1755 – 2270 MHz | 2.2-2.5/5.0-6.0 GHz | 3 – 10 GHz |
| Gain | 2.1 dBi @ 1780 MHz 2.3 dBi @ 2260 MHz | 2.2 dBi @ 2450 MHz 4.4 dBi @ 5650 MHz | 1.8 dBi @ 3000 MHz 3.7 dBi @ 6000 MHz 3.0 dBi @ 9000 MHz 3.4 dBi @ 10000 MHz |
| VSWR | < 3:1 | < 3:1 | < 3:1 |
| Polarization | Vertical | Vertical | Vertical |
| Size (L x D) | 2.65" x 0.52" x 0.43" | 2.65" x 0.52" x 0.43" | 2.65" x 0.52" x 0.43" |
| Weight | 0.35 ounces | 0.35 ounces | 0.35 ounces |
| Connector | SMA Male | SMA Male | SMA Male |



In addition to our standard COTS (commercial off the shelf) Stub Antennas, Pharad offers custom engineered solutions that conform to a customer's exact specifications.

Octane is a registered trademark and division of Pharad, LLC. Specifications subject to change without notice.

1340 Charwood Road, Suite L • Hanover, MD 21076 • phone 410-590-3333 • email info@pharad.com
www.pharad.com

