The “Stealth MagLoop Element” for our MagLoop systems will work with both of Alpha Antenna’s Magnet Loop Antennas:

- Using the Model 100W MagLoop’s tuning box, it will work on 6-17M
- Using the Model EmComm MagLoop’s tuning box, it will work on 6-20M.

Here are the efficiencies for this element when compared to a resonant dipole installed at 1/2 wavelength high.

Efficiency

With a total circumference of 2.18055 Feet, this magnetic loop antenna with a 0.32-inch conductor diameter exhibits the following calculated efficiencies.

Efficiency Chart

Center Frequency of each Band	S-Units loss from a resonant dipole installed at 1/2 wavelength high	Antenna Efficiency
6M, 52MHz	0.62	(-3.7 dB below 100%)
10M, 28.85MHz	1.87	(-11.2 dB below 100%)
12M, 24.94MHz	2.22	(-13.3 dB below 100%)
15M, 21.225MHz	2.60	(-15.6 dB below 100%)
17M, 18.118MHz	3.00	(-18.0 dB below 100%)
20M, 14.175MHz	3.62	(-21.7 dB below 100%)

REFERENCE CALCULATOR Small Transmitting Loop Antenna Calculator • 66pacific.com

For higher efficiencies, use the Larger Outer Loops that come with our MagLoop systems.

Results

The following signal reports are SSB contacts made from California over a 30-minute period, and while these are not ‘great signal reports’, they do get stronger the higher your frequency becomes:

20-Meters: 5/3 N6FCM California, 5/3 KA6NPD California, 3/3 KC7DTR Utah, 5/2 N6WL California

10-Meters: 5/5 K0MJ Kansas, 5/3 KC5NVZ Texas, 5/3 KS0MIK Kansas, 5/3 K0PJR Kansas

Specifications

- **Setup**: Deployable in 60 seconds.
- **Modes**: This Stealth MagLoop add-on is especially useful on 6-20 meters for all-mode High-Q listening & SSB/CW/Digital weak signal TX operations.
- **Usage Scenario**: Placement on a table/desk inside a Covert and/or Emergency Response Vehicle, Office, Apartment, Camper, Tent, or anywhere else where space is limited.

DEPICTION (ASSEMBLED)

* Tuning Box NOT included.

PARAMETER	LEADING PARTICULARS
Operating Parameters	MAX POWER: 50W PEP SSB, 25W CW, 10W Digital FREQUENCY COVERAGE: 54MHz to 14MHz (6M to 20M) IMPEDANCE: 50 ohms
Usage Parameters	DIRECTIONALITY: Semi-Directional PURPOSE: NVIS & DX
Physical Parameters	SIZE: 10-inch diameter MOUNT: Female 5/8-11″ IP RATING: IP-53 CONNECTOR: 50-ohm Female BNC

Support Resources

- User Manuals: Alpha Antenna User Manuals hub.
- Videos: Related videos.
- Guidance / FAQs: Available HERE.
- Customer Reviews: Scroll to bottom of this page.

We Listen

We are dedicated to improving all of our systems. Specifications and descriptions are subject to change without notice.

5.0
★ ★ ★ ★ ★
★ ★ ★ ★ ★
Based on 3 reviews
5★
100
100%
4★
0%
3★
0%
2★
0%
1★
0%
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Most Recent

1. JM

Protected_User_2aeeb9be
Reviewer
October 13, 2026

★★★★★
★★★★★

6-20M Stealth MagLoop Element

Verified review - view original

Great addition to the original mag loop I ordered before and I smile everything I look at it. It looks like the original had a baby and it’s trying to hug you LOL

2. A

Protected_User_52a7059a
Verified owner
September 6, 2026

★★★★★
★★★★★

6-20M Stealth MagLoop Element

Verified review - view original

3. T

Protected_User_891a913b
Verified owner
June 4, 2026

★★★★★
★★★★★

6-20M Stealth MagLoop Element

Verified review - view original