

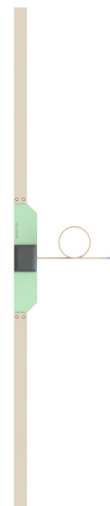
## Overview

Southwest Antennas Part # 1050-059 is an omni-directional receive antenna designed for maritime AIS (Automatic Identification System) transceivers, allowing manned or unmanned vessels outfitted with compatible systems to register and track position, course, and speed relative to other marine traffic and utilize collision avoidance systems while at sea.

This antenna is designed to be embedded against fiberglass and requires a panel of at least 48" long by 24" wide to accommodate the antenna. The antenna elements are flexible which facilitates mounting to curved surfaces.

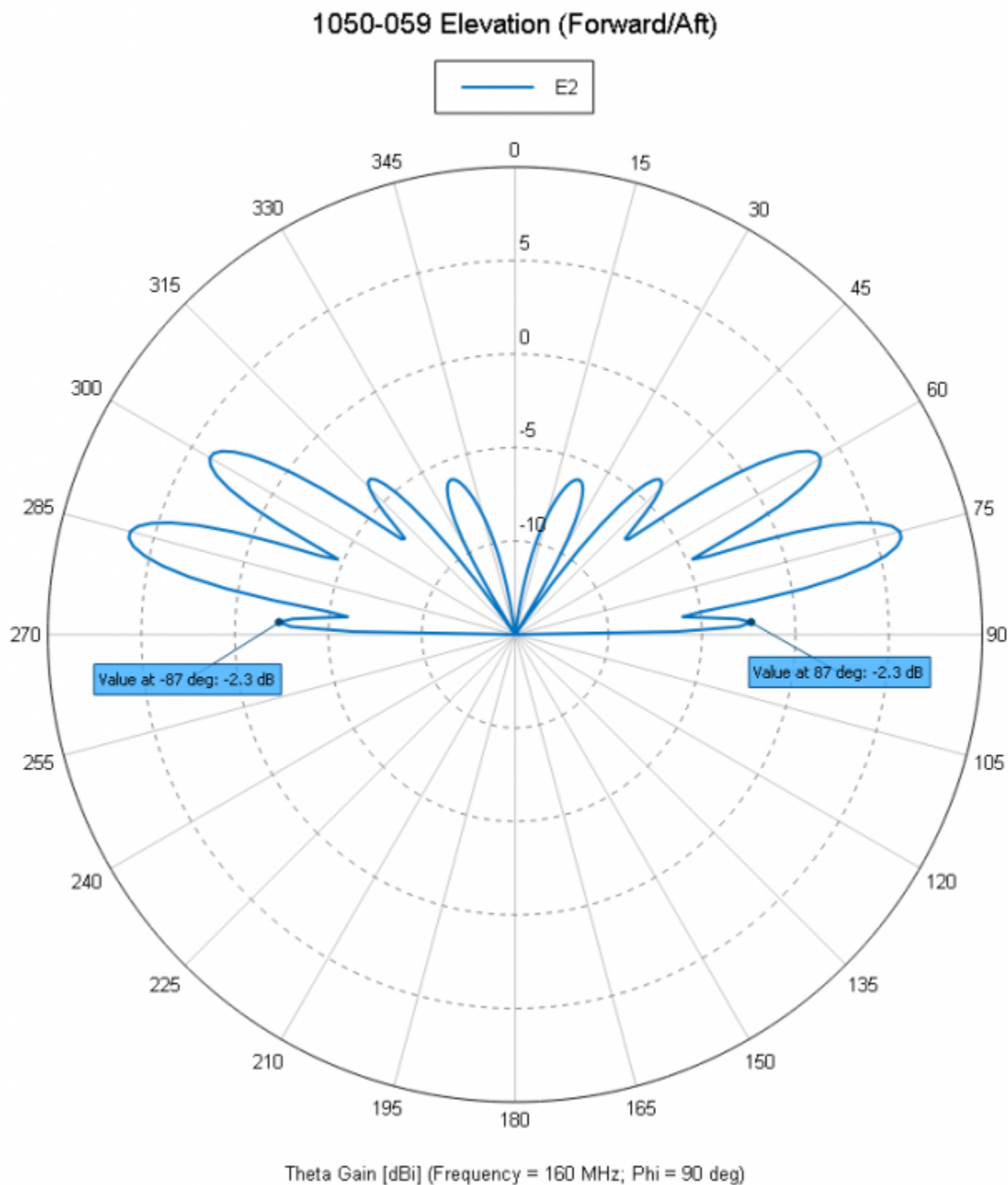
## Features:

- Designed for maritime AIS application
- Half wave dipole antenna design
- 161.975 - 162.025 MHz frequency band coverage
- 1.15 dBi gain
- 15 ft RG-316 coaxial RF cable
- SMA(m) RF connector



### Antenna Specifications

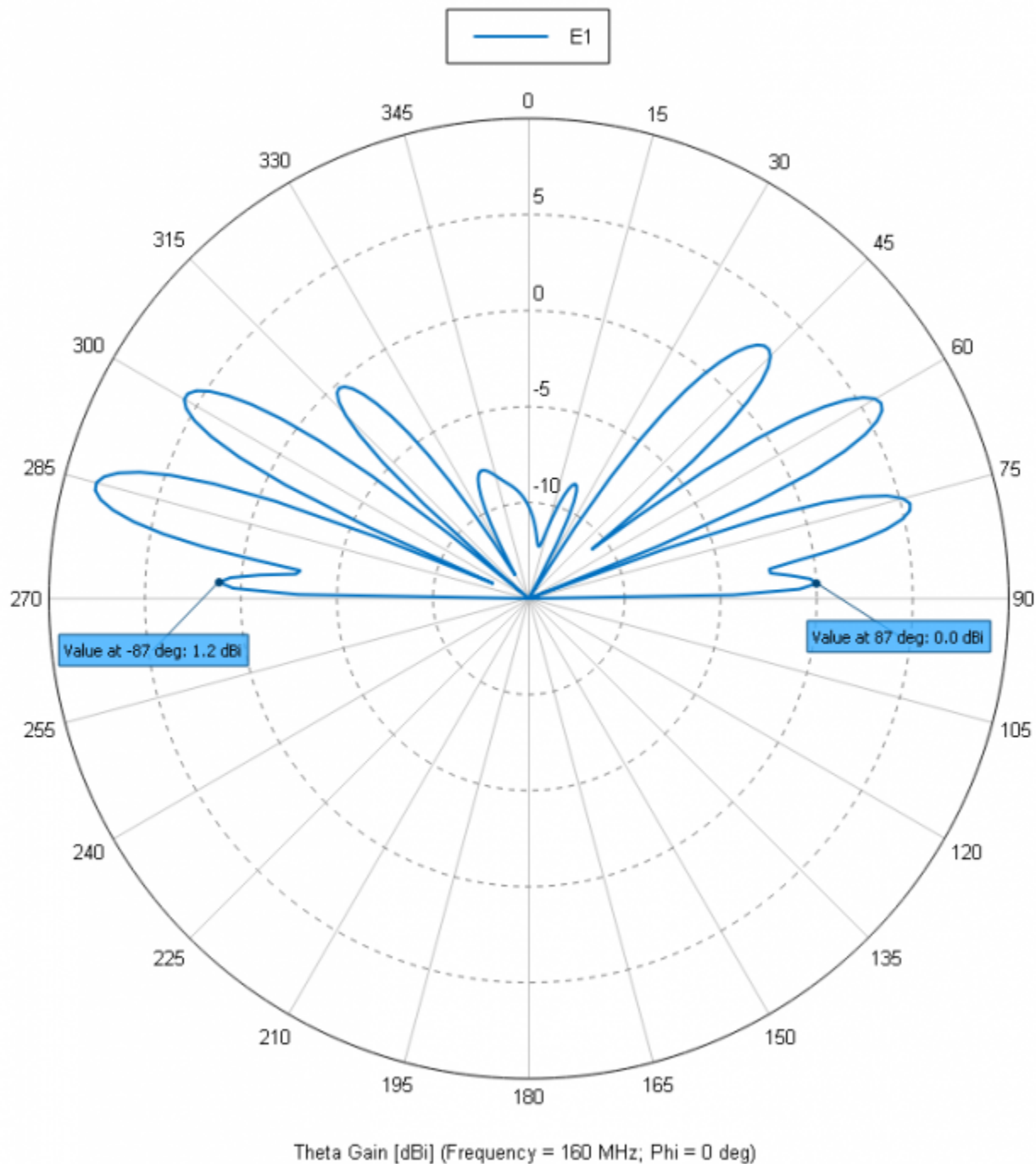
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	VHF		
Impedance	50	Ohms	
Minimum Frequency	0.162 / 162	GHz / MHz	
Maximum Frequency	0.162 / 162	GHz / MHz	
Frequency Bandwidth	0.0 / 0	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	1.15	dBi	
Polarization	Vertical		
Horizontal (AZ) Beamwidth	3	Degrees	
Vertical (EL) Beamwidth	360	Degrees	
Ground Plane Required	No		
RF Connector Type	SMA(m)		
RF Cable Type	RG-316		
RF Cable Length	15.00 / 4.57	ft / m	
Operating Temperature Range	-40 to +85	C	
Product Length	32.00 / 812.80	inches / mm	±0.1"
Product Width	1.50 / 38.10	inches / mm	±0.1"
Product Height	0.37 / 9.40	inches / mm	±0.1"
Product Weight	6.7 / 189.9	oz / grams	



**Elevation Pattern**

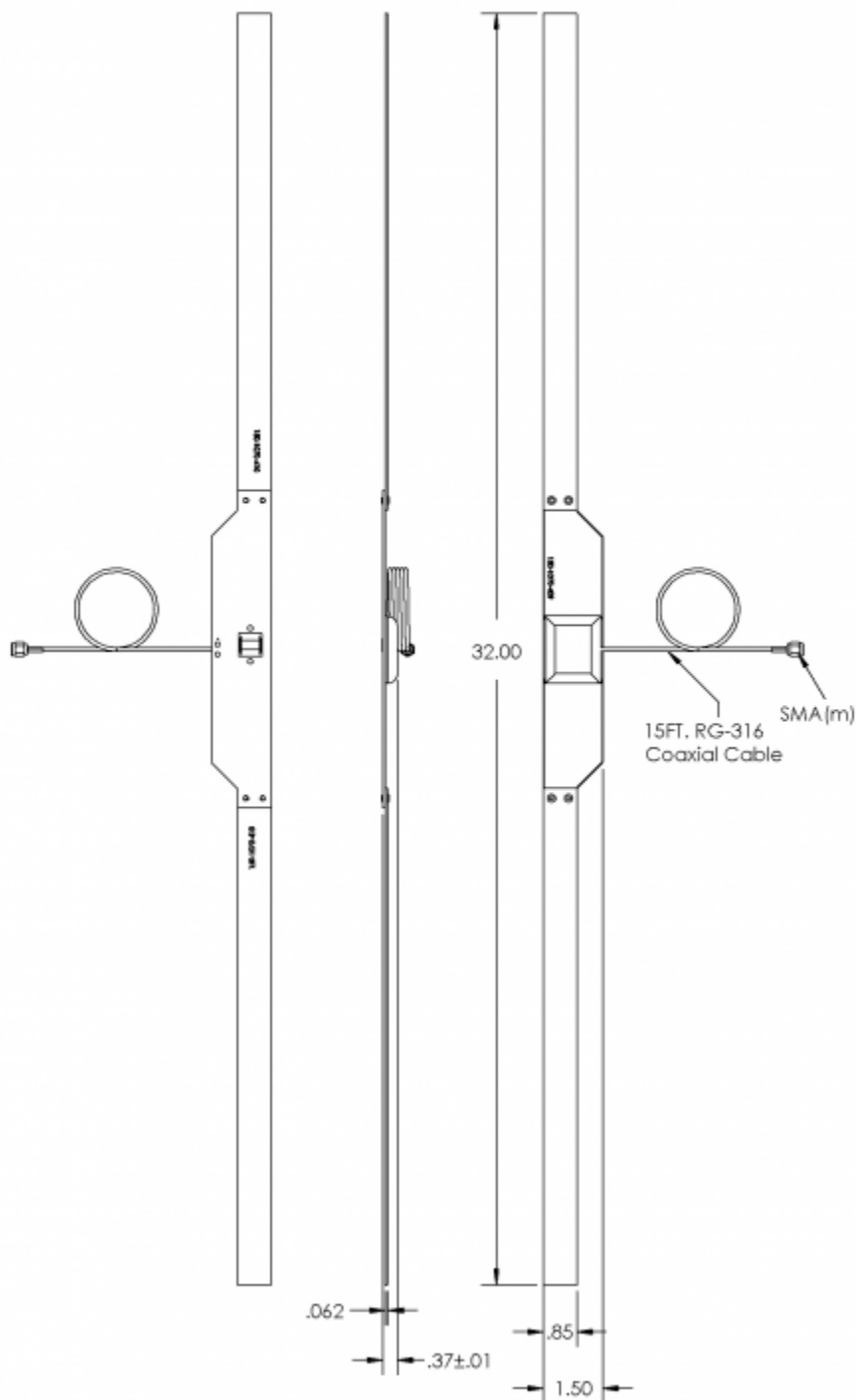
Elevation Pattern Forward and Aft

1050-059 Port & Starboard



**Elevation Pattern 2**

Elevation Pattern Port and Starboard



**Engineering Drawing**

All dimensions are in inches