

156 to 163 MHz, Omni Marine Antenna,
4.5 dBi, UHF Female (SO239) Connector, White,
Fiberglass Radome, Vertical Polarization



PEMAROM1003

Features

- Marine grade omni antenna
- Fiberglass strong material
- U-Bolt bracket
- SO239 Female connector
- 156 to 163 MHz, 4.5 dBi
- Yacht, boats and other marine vehicles
- Single pole long antenna
- IP67 rated antenna

Applications

- Port operations
- Boater calling
- Commercial and Non-commercial communications
- International distress, safety and calling (156.80 MHz)
- Coast guard communications
- Marine radios on boats, pontoon, sailboats or yacht
- AIS calling
- Marine operators
- Weather monitoring

Description

The Pasternack PEMAROM1003 is a single band omni marine antenna that ships on the same day as ordered. Our vertical polarized antenna with 156 to 163 MHz frequency range has a UHF female connector. This antenna with a white radome made of fiberglass has an overall length of 65.35 inch, a width of 1.26 inch, and a weight of 2.2 lbs.

Pasternack's PEMAROM1003 is a single band antenna operating from 156 to 163 MHz with 4.5 dBi gain. The omni directional antenna has a maximum input VSWR of 1.5:1.

Pasternack has one of the largest in-stock collections of omni directional antennas with our wide selection of superior quality RF parts, that ship same day. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal single band omni antenna as per your requirement.

Configuration

Design	Marine
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	S0239
Connector Type	UHF Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	156		163	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		4.5		dBi
Horizontal (Azimuth) HPBW		360		Degrees
Input Power			50	Watts

Mechanical Specifications

Radome Material	Fiberglass
-----------------	------------

156 to 163 MHz, Omni Marine Antenna,
4.5 dBi, UHF Female (SO239) Connector, White,
Fiberglass Radome, Vertical Polarization

PEMAROM1003



Size

Length	65.35 in [165.99 cm]
Width	1.26 in [32 mm]
Height	2.5 in [63.5 mm]
Weight	2.2 lbs [997.9 g]

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Radiation Pattern

Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

156 to 163 MHz, Omni Marine Antenna, 4.5 dBi, UHF Female (SO239) Connector, White, Fiberglass Radome, Vertical Polarization from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

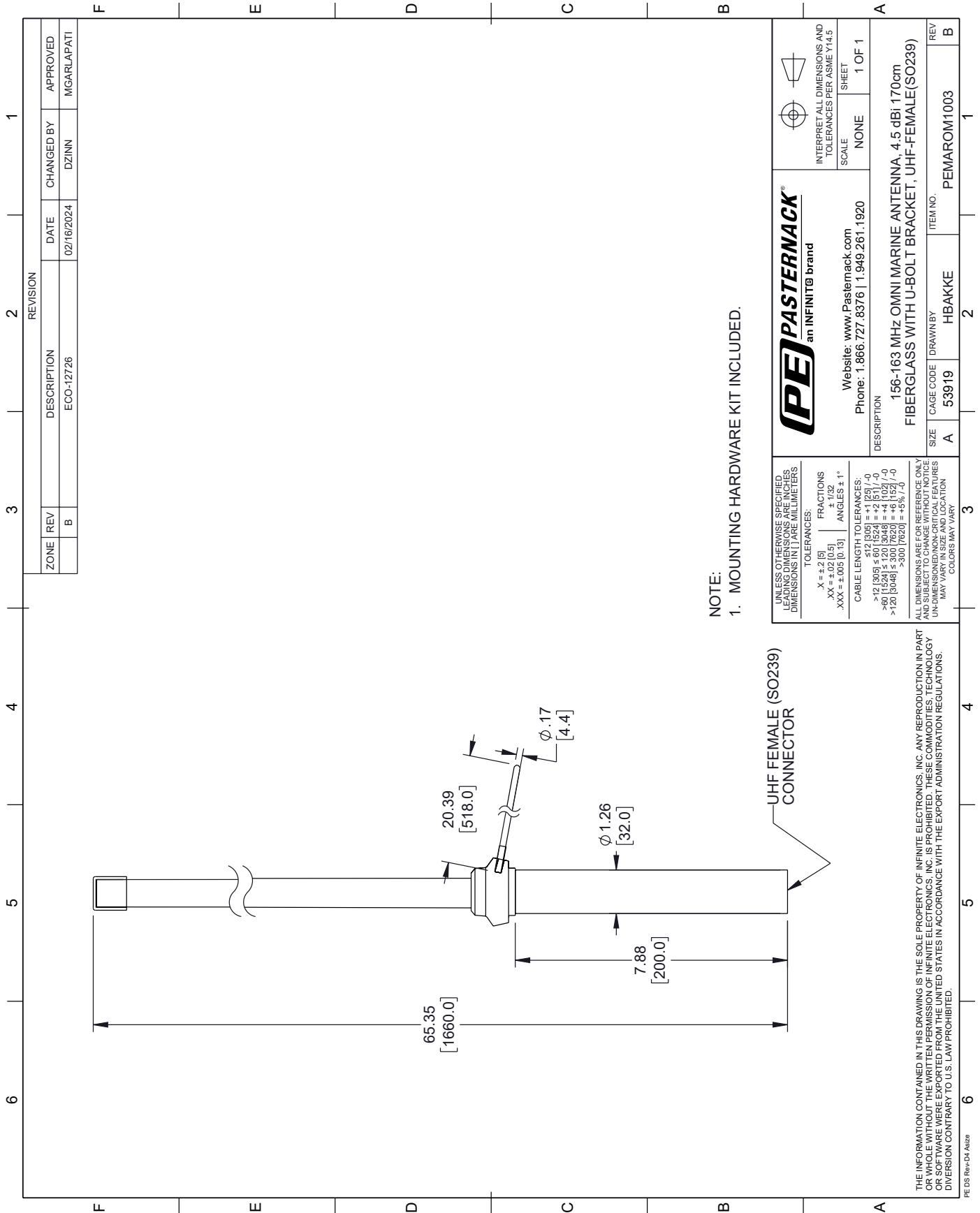
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [156 to 163 MHz, Omni Marine Antenna, 4.5 dBi, UHF Female \(SO239\) Connector, White, Fiberglass Radome, Vertical Polarization PEMAROM1003](#)

URL: <https://www.pasternack.com/4.5-dbi-antenna-156-163-mhz-uhf-female-connector-pemarom1003-p.aspx>


The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PEMAROM1003 CAD Drawing

156 to 163 MHz, Omni Marine Antenna, 4.5 dBi, UHF Female (SO239)
 Connector, White, Fiberglass Radome, Vertical Polarization



NOTE:
 1. MOUNTING HARDWARE KIT INCLUDED.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN PARE MILLIMETERS		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			
TOLERANCES: .X = ±.2 [5] FRACTIONS ± 1/32 .XX = ±.02 [0.5] ANGLES ± 1° .XXX = ±.005 [0.13]		SCALE	NONE		
CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = +1 [25] / -0 >60 [1524] ≤ 120 [3048] = +2 [51] / -0 >120 [3048] ≤ 300 [7620] = +4 [102] / -0 >300 [7620] = +5 [127] / -0		SHEET	1 OF 1		
ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. DIMENSIONS ON CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920			
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.		DESCRIPTION 156-163 MHz OMNI MARINE ANTENNA, 4.5 dBi 170cm FIBERGLASS WITH U-BOLT BRACKET, UHF-FEMALE(SO239)			
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	B	ECO-12726	02/16/2024	DZINN	MGARLAPATI
SIZE	CAGE CODE	DRAWN BY	ITEM NO.		
A	53919	HBAKKE	PEMAROM1003		