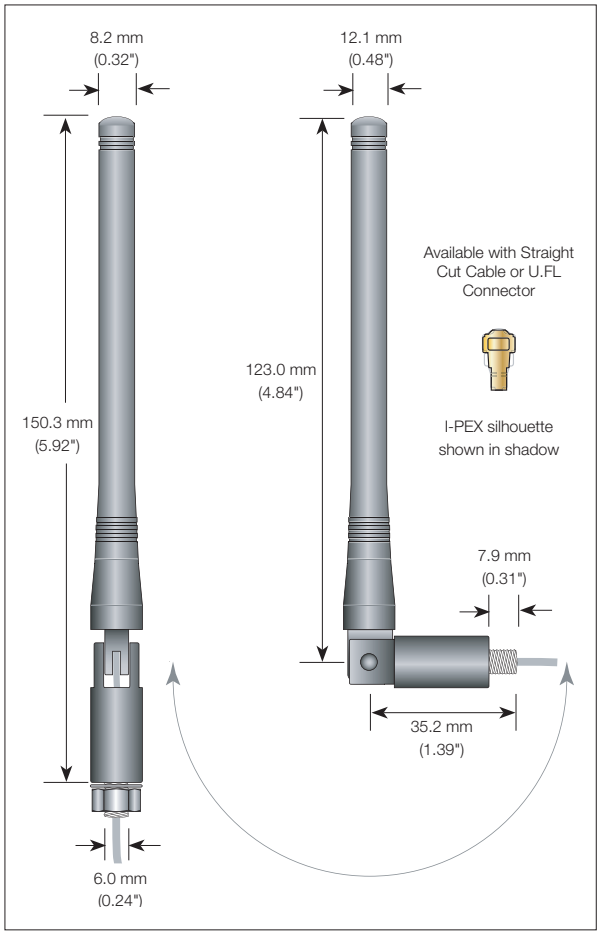
ANT-2.4-PML-xxx

Data Sheet

Product Description

Designed for permanent attachment, the PML ½-wave whip tilts 180 degrees and delivers outstanding performance in a cost-effective package. An internal counterpoise eliminates external ground plane dependence and maximizes performance. The antenna is attached by placing its base through a ¼" (6.35 mm) hole in the product and securing it with a nut or by threading it into a PEM-style insert. This method of attachment is highly secure and saves the cost of an antenna connector. The PML attaches to a PCB or connector via 12" (30.48 cm) of RG-178 coax cable. It is also available with 1.32 mm coax cable terminated with a U.FL/MHF compatible connector. This saves the labor of adding a connector while using one that is small enough to fit through the antenna's mounting hole. Custom lengths and terminations are available by special order.



Features

- Cost-effective
- Internal counterpoise
- Tilts 180 degrees
- Outstanding performance
- Omni-directional pattern
- Low VSWR
- Integral 12" (30.48 cm) RG-178 coax cable or 1.32 mm coax (U.FL)

Electrical Specifications

Center Frequency:	2.45GHz
Recom. Freq. Range:	2.35-2.60GHz
Wavelength:	½-wave
VSWR:	≤1.9 typical at center
Impedance:	50-ohms
Connection:	Straight-cut or U.FL/MHF
Cable:	12" (30.48 cm) RG-178 coax or 1.32 mm coax (U.FL)
Oper. Temp. Range:	–40°C to +90°C

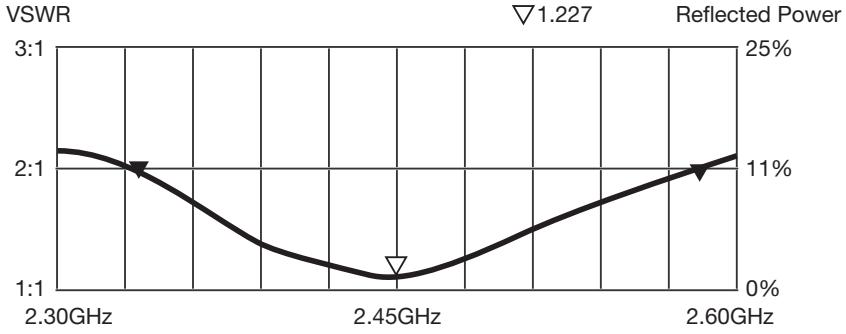
Electrical specifications and plots measured on 10.16 cm x 10.16 cm (4.00" x 4.00") reference ground plane

Ordering Information

ANT-2.4-PML (with straight cut RG-178 coax)
ANT-2.4-PML-UFL (with U.FL/MHF compatible connector and 1.32mm coax)

Revised 5/1/15

VSWR Graph



What is VSWR?

The Voltage Standing Wave Ratio (VSWR) is a measurement of how well an antenna is matched to a source impedance, typically 50-ohms. It is calculated by measuring the voltage wave that is headed toward the load versus the voltage wave that is reflected back from the load. A perfect match will have a VSWR of 1:1. The higher the first number, the worse the match, and the more inefficient the system. Since a perfect match cannot ever be obtained, some benchmark for performance needs to be set. In the case of antenna VSWR, this is usually 2:1. At this point, 88.9% of the energy sent to the antenna by the transmitter is radiated into free space and 11.1% is either reflected back into the source or lost as heat on the structure of the antenna. In the other direction, 88.9% of the energy recovered by the antenna is transferred into the receiver. As a side note, since the ":1" is always implied, many data sheets will remove it and just display the first number.

How to Read a VSWR Graph

VSWR is usually displayed graphically versus frequency. The lowest point on the graph is the antenna's operational center frequency. In most cases, this will be different than the designed center frequency due to fabrication tolerances. The VSWR at that point denotes how close to 50-ohms the antenna gets. Linx specifies the recommended bandwidth as the range where the typical antenna VSWR is less than 2:1.

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Данный компонент на территории Российской Федерации

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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