ANT-2.4-CW-HW-T

2.4 GHz Connectorized Dipole Antenna

HW-T Series 1/2-wave center-fed dipole antennas deliver outstanding performance in a rugged package. The outer antenna sleeve is constructed with Keyflex BT® 1040D material to provide added UV resistance for outdoor applications.

The antenna contains a straight whip element and internal counterpoise which eliminates external ground plane dependence and maximizes performance.

HW-T Series antennas attach via Part 15 compliant RP-SMA connector (female socket).

FEATURES

- Peak Gain of 3.2 dBi
- Rugged & damage-resistant
- UV Resistant
- Extended low temperature range
- Internal O-ring seal on connector
- Internal counterpoise for ground plane independence
- Omnidirectional pattern
- Part 15 compliant RP-SMA connector (female socket)

APPLICATIONS

- Bluetooth® and ZigBee®
- Hand-held devices
- ISM applications
- Sensing and remote monitoring
- Internet of Things (IoT) devices

ORDERING INFORMATION

Part Number	Description
ANT-2.4-CW-HW-T	Antenna with RP-SMA connector (female socket)

Available from Linx Technologies and select distributors and representatives.

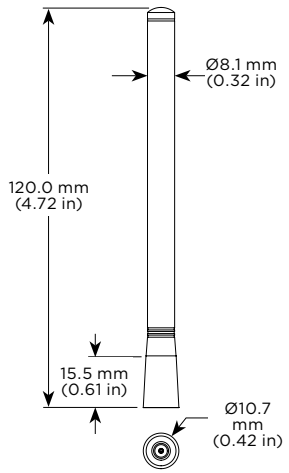

TABLE 1. ELECTRICAL SPECIFICATIONS

Center Frequency	2.45 GHz
Frequency Range	2.35 GHz to 2.60 GHz
VSWR (max)	2.0
Peak Gain (dBi)	3.2

Electrical specifications and plots measured with a 102 mm x 102 mm (4.00 in x 4.00 in) reference ground plane.

TABLE 2. MECHANICAL SPECIFICATIONS

Parameter	2.45 GHz
Wavelength	1/2-wave
Impedance	50 Ω
Operating Temp. Range	-30 °C to +85 °C
Connection	RP-SMA (female socket)

VSWR

Figure 1 provides the voltage standing wave ratio (VSWR) across the antenna bandwidth, oriented at the center of the ground plane, perpendicular. VSWR describes the power reflected from the antenna back to the radio. A lower VSWR value indicates better antenna performance at a given frequency. Reflected power is also shown on the right-side vertical axis as a gauge of the percentage of transmitter power reflected back from the antenna.

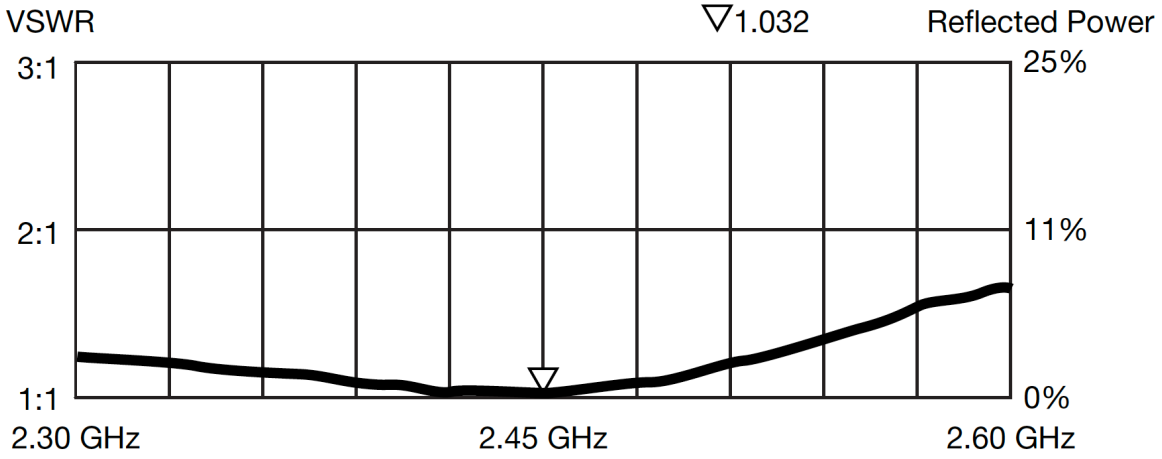

Figure 1. ANT-2.4-CW-HW-T Antenna VSWR

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