

SPECIFICATION

PART NO: U00T02S000N01821

Dongguan head office address:

Building A, B and C, no.1 sankeng road, qinghutou community, tangxia town, dongguan city

Address of shenzhen branch:

Room 503, kanghesheng building, no. 3009, shahe west road, shahe street, nanshan district, shenzhen

PHONE: 0755-86237892 FAX: 0755-86104325

WEBSITE: http://www.rflink.net.cn

SALE: sales@rflink.net.cn

SUPPORT:rflink02@rflink.net.cn

This document contains the measured data for the U00T02S000N01821 antenna. The U00T02S000N01821 is a 2.4GHz, 3.0 dBi gain, custom omni-directional antenna designed for the Rosemount enclosure. The measurements were taken in PCTEL's high quality near field antenna range test facility (NFR) and verified using the tapered far field antenna range. The data in this report comes from the NFR and is saved for future inquiry. The antenna was mounted to the sensor housing for all the measurements in order to improve the usefulness of the data.

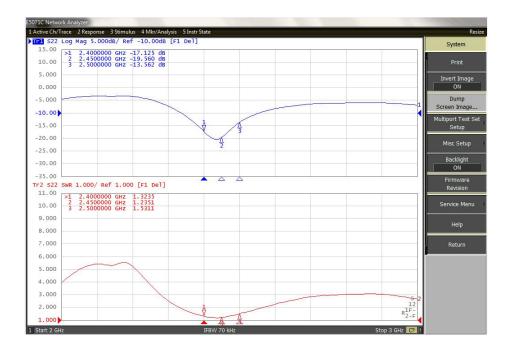
The first plot in this report shows the VSWR (voltage to standing wave ratio) as a function of frequency. It indicates how much energy is transmitted versus how much energy is reflected. This measurement was taken using a calibrated Agilent E5071C RF network analyzer.

The next plot shows the gain as a function of frequency. The gain values are achieved by measuring a known gain standard in the same configuration as the antenna under test in the NFR antenna range. The measured data for the two antennas is then compared and analyzed by the antenna range computer software. After the analysis is complete, the software computes the gain values. The average gain is computed by averaging the gain values of the azimuth plane radiation pattern at the horizon.

The three plots following the gain versus frequency curve show the radiation patterns of the antenna at different frequencies. The frequencies chosen for these plots are the low, middle, and high points of the frequency range that the antenna was designed for. The radiation patterns shown are the elevation pattern (XZ plane), azimuth pattern (XY plane or the horizon cut), and a full three dimensional radiation pattern at the center frequency band.

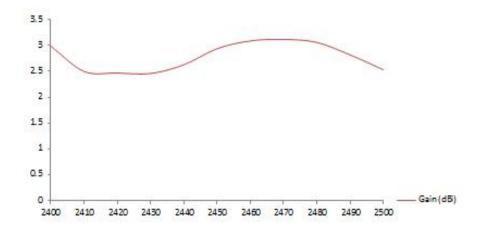
If there are any questions regarding the data in this report or if more detail is needed, please feel free to contact me.

VSWR vs Frequency

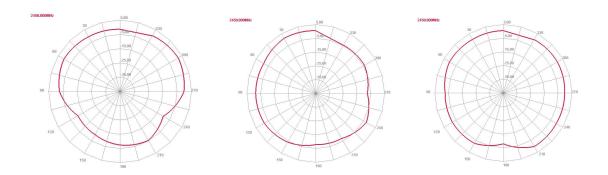


This plots shows that the VSWR response of the antennas tested were within the specified range which is <2:1.

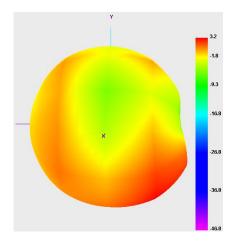
This plot shows the computed gain values when compared to the known gain standard.



This plot shows the full 2D radiation characteristics of the antenna.



This plot shows the full 3D radiation characteristics of the antenna.



Antenna Size

