Annex no. 10

Antenna Description

State: 2010-03-01 Vers. no.: 1.10



Antenna "Dual Vivaldi" for Microware Moisture and Density Measuring System MW-T

Datasheet

TEWS Elektronik GmbH & Co. KG

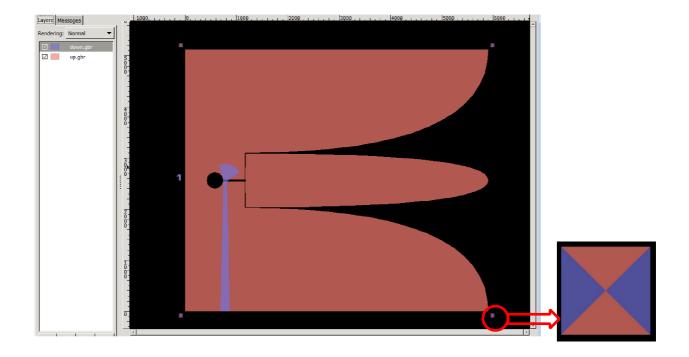
Sperberhorst 10, D-22459 Hamburg



MW-T Antenna Type "Dual Vivaldi"

Specification

PCB Material: Rogers RT 5880, 150x120mm, 1,575mm, 17 μ m Cu

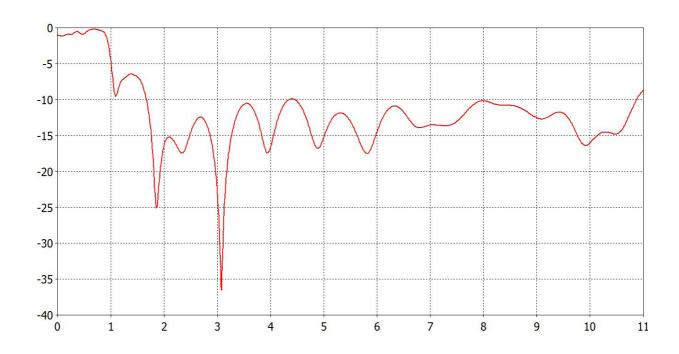


Antenna Layout Top Layer – brown

Bottom Layer - magenta



Typical Impedance matching S11 in dB (simulated)

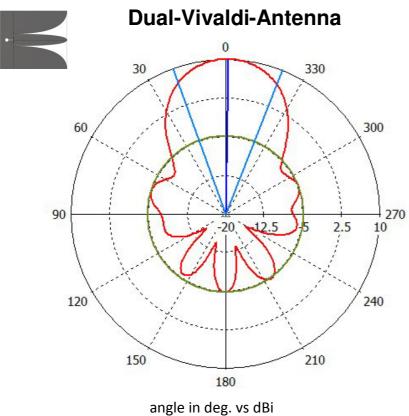


Frequency in GHz

typical impedance matching at least -8dB from 2 to 11 GHz



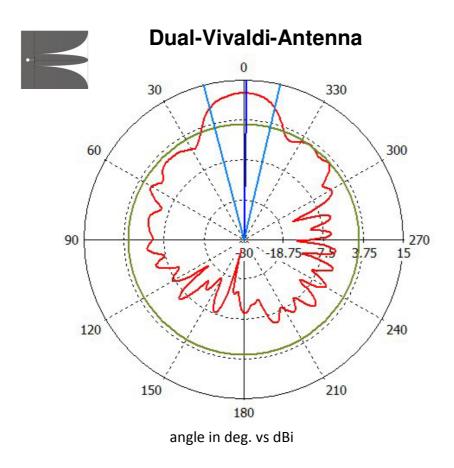
Pattern E-Field at 3GHz (simulated)



maximum gain: 9,8 dBi



Pattern E-Field at 10GHz (simulated)



maximum gain: 11,2 dBi