

Annex no. 10

Antenna Description

**Antenna “Dual Vivaldi” for
Microwave Moisture and Density Measuring System MW-T**

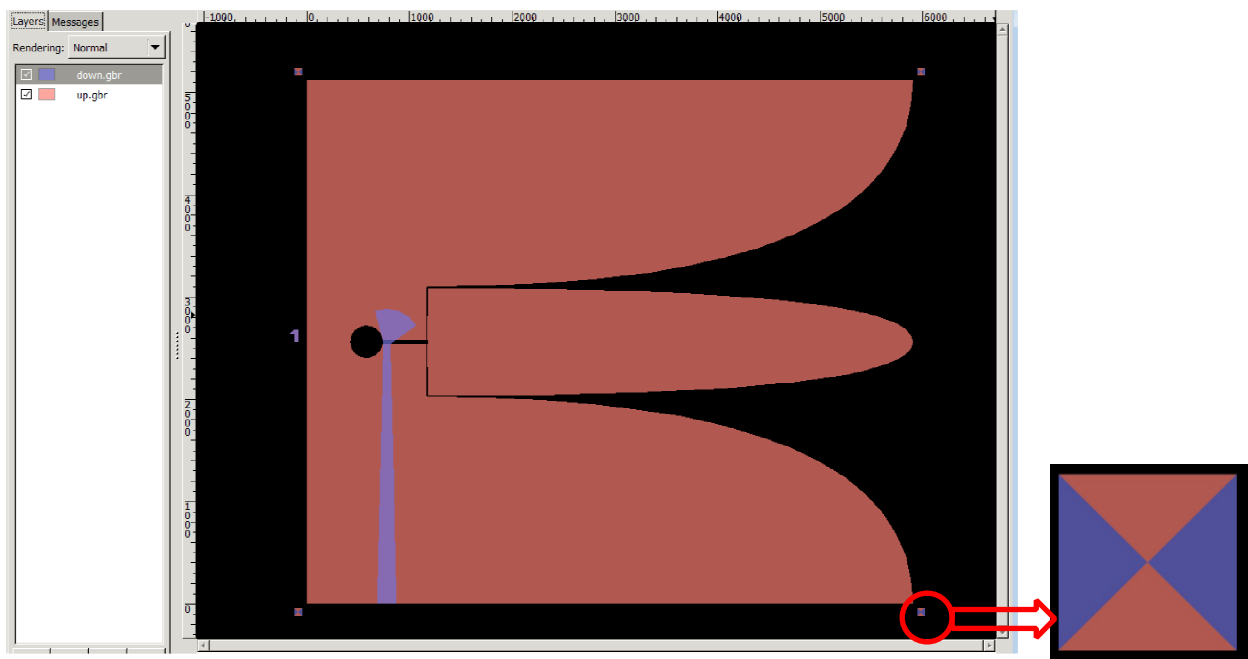
Datasheet

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, 17µm Cu

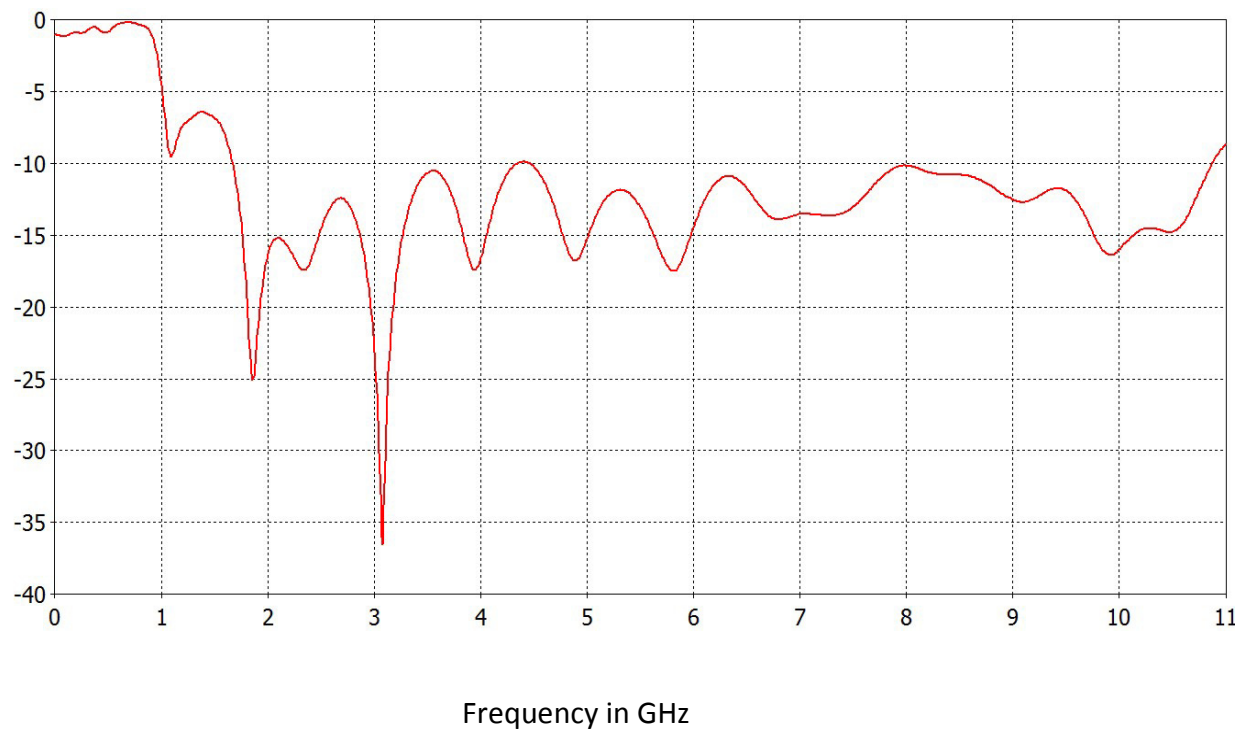


Antenna Layout

Top Layer – brown

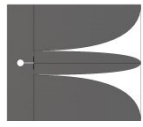
Bottom Layer - magenta

Typical Impedance matching S11 in dB (simulated)

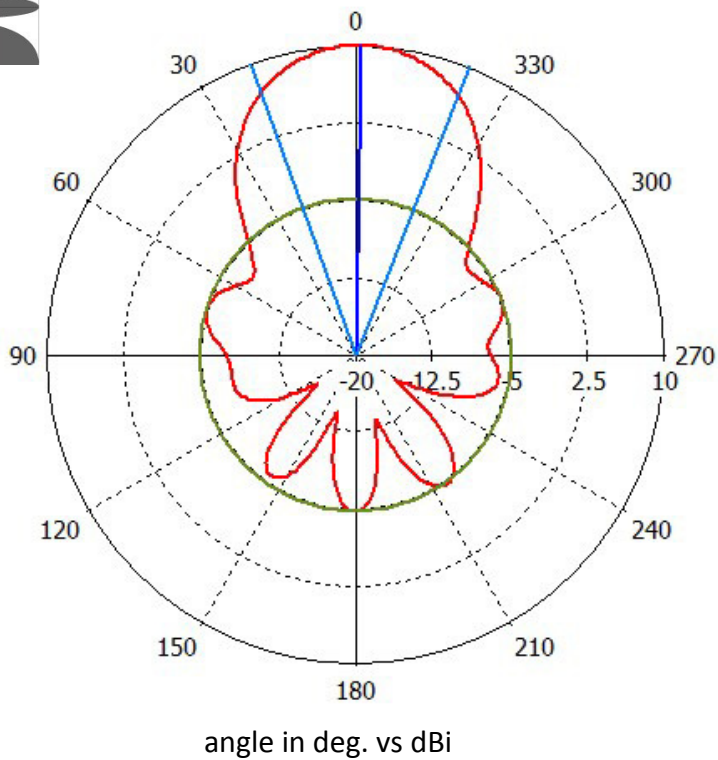


typical impedance matching at least -8dB from 2 to 11 GHz

Pattern E-Field at 3GHz (simulated)

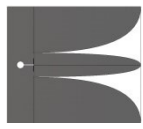


Dual-Vivaldi-Antenna

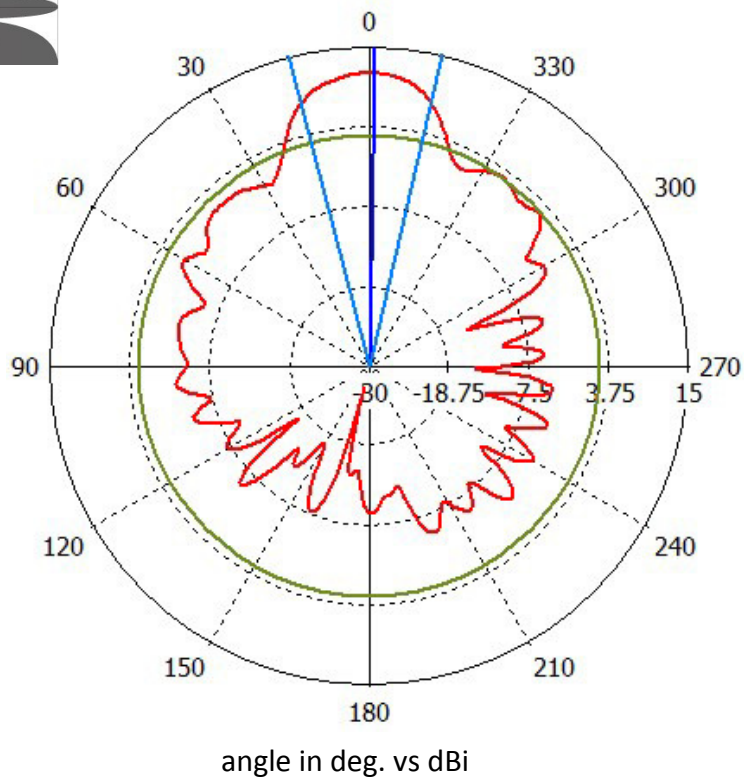


maximum gain: 9,8 dBi

Pattern E-Field at 10GHz (simulated)



Dual-Vivaldi-Antenna



maximum gain: 11,2 dBi