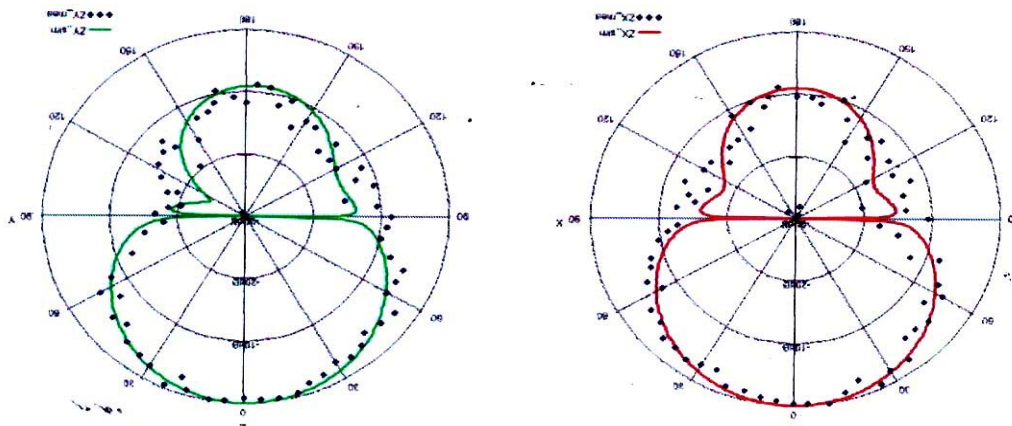


## **Antenna Description**

56/63 M.10 T.Tonpao A.Sunkumphang Chiangmai 50130 Tel:+66 53 390909 Fax:+66 53 390910

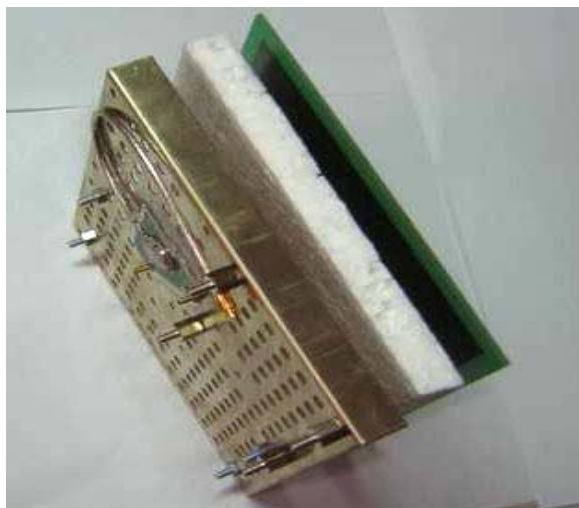
## Antenna for UHF RFID reader HH 800; ST 800; HH 500; ST 500; PR 500; PR 100 and ST 100

1. **Antenna type:** circular patch antenna 5x5 inch outline dimension with two quadrature inputs.
2. **Electrical characteristics:**
  - Impedance: 50 Ohm matched for a frequency range of 900 to 930 MHz; or alternatively for 850 to 880 MHz
  - VSWR: less than 1:1,5
  - Gain: 5 dBi
  - Directivity: at 7,5 dBi
3. **Radiation pattern:**

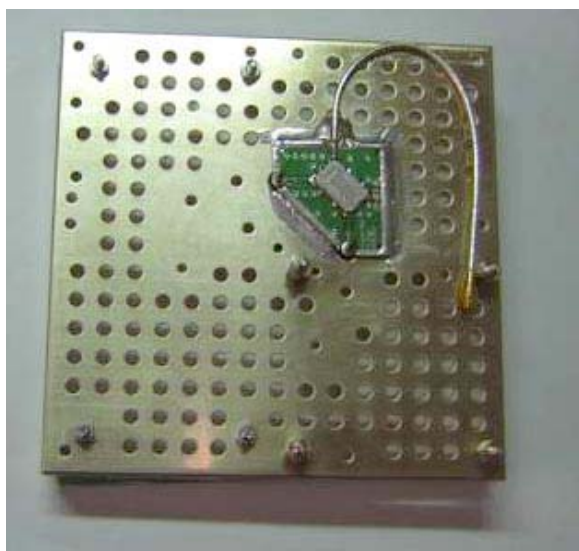


4. **Schematic:** see PDF file enclosed
5. **Mechanical construction:** see pictures below
 

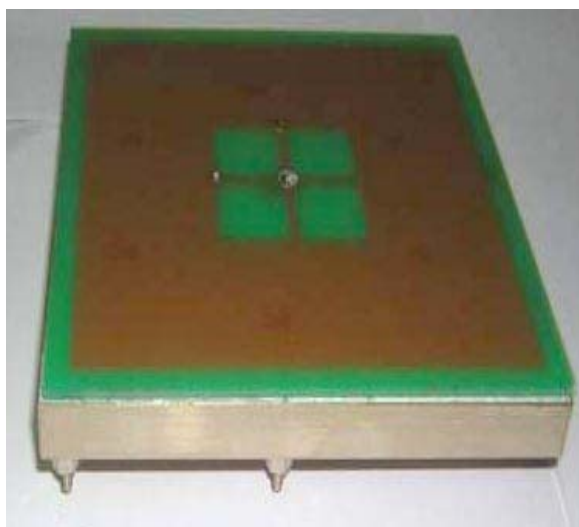
The main elements are a steel brass frame which is the carrier for the antenna and ground; a Styrofoam distance holder between the brass frame and the FR4 PCB antenna. The coupling device is directly soldered onto the brass frame and the antenna is connected with 2 steel PIN's through the brass frame and distance holder to the PCB antenna.



Antenna explosion view



Antenna back view



Top view,