



2D indoor Antenne 125kHz

Long Range RFID Antenne



The 2D indoor antenna 50x70 is a flat cable antenna for diverse applications, especially for evaluation purposes and mobile applications.

The antenna is made of a very flexible flatcable which allows to roll the antenna and transport it easily. The antenna can be build into a housing provided by the system integrator or the customer. On demand a housing is available from TAGnology RFID Ltd.

Order code:

00594

Application Examples:

- > manufacturing
- > automation
- > industry applications
- > logistic applications
- > access control

Special Features:

- > flat cable antenna
- > allows to roll
- > reading distances up to 1m

Technical data:

Type	Flat cable antenna
Dimensions (WxHxD)	700 x 500 mm
Weight	340g
Cable lenght	3m
Connector	3-pole DIN-Connector (DIN41524)
RWD	TAGpower 125kHz
Reonace frequency	125kHz or 134.2kHz
Current consumption	typ. 200mA Max. 250mA
Reading distance	up to 1m depending on TAG antenna size

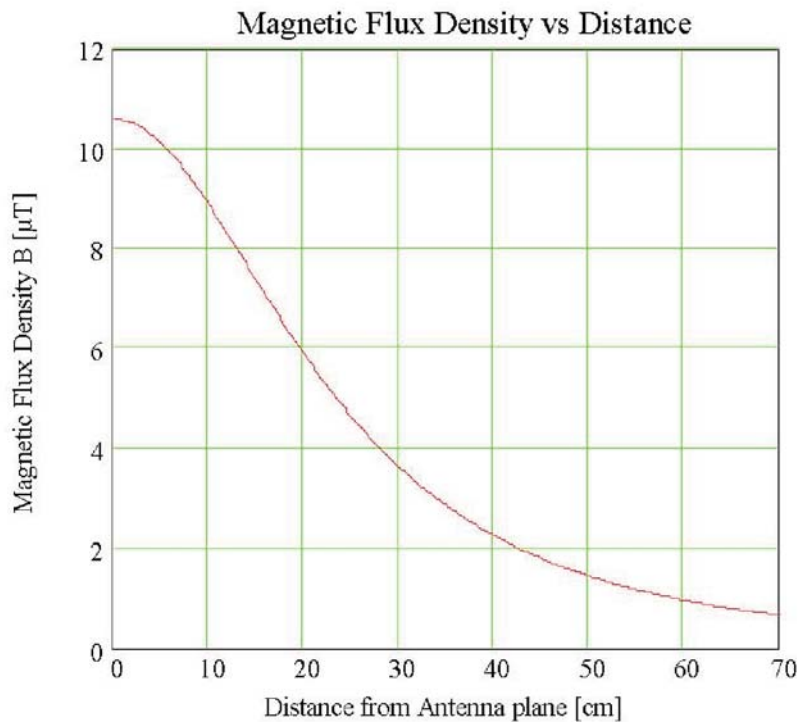


Figure 1: Magnetic Density B on the axis of the antenna vs distance from the antenna plane for an antenna current of 200mA.

The required minimum Flux density for communication (B_{min}) is specified for some HITAG transponders. The transmission range of the antenna can be figured out by inserting the value for B_{min} on the y-Axis and finding the corresponding transmission range on the x-Axis.

Tuning:

The antenna is equipped with a trimming capacitor in order to accommodate the antenna to the close ambience. To access the trimmer the plastic housing of the electronic has to be removed. The tuning can be checked with the help of HITAG tuning device provided by TAGnology RFID Ltd.