

# UHF1709-21

## Protocol

ISO 18000-6C EPC Class 1 Gen 2

## Operating frequency

860 – 960 MHz

## Antenna size

70\*17mm / 2.76 × 0.67 inch



## Key features

- Pre-Programmed with a unique, unalterable 64-bit serial number.
- User memory can be block permalocked as well as read password protected in 32 bit blocks.
- Dynamic Authentication – Anti-cloning/anti-counterfeit technology.

## Electrical Specifications

### Higgs family (except Higgs EC) memory sections

Name	Size
Higgs3	96~480 bit EPC + 512 bit
Higgs4	128 bit EPC + 128 bit

## General Characteristics of Inlay

Inlay Substrate Material	PET
Antenna Material	Aluminum
Operating Temperature	-40 °C - 85 °C / 40 °F - 185 °F
Bending Diameter	>50mm / 1.97"
Static Pressure	< 10MPa

## Delivery formats

Available formats	wet/dry inlay, tag, card
Quality	100% performance tested

## Test graph

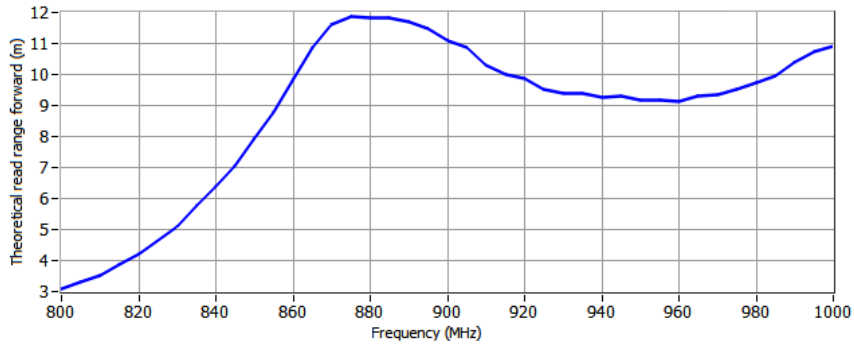


Figure 1: Read range based on chip Higgs3

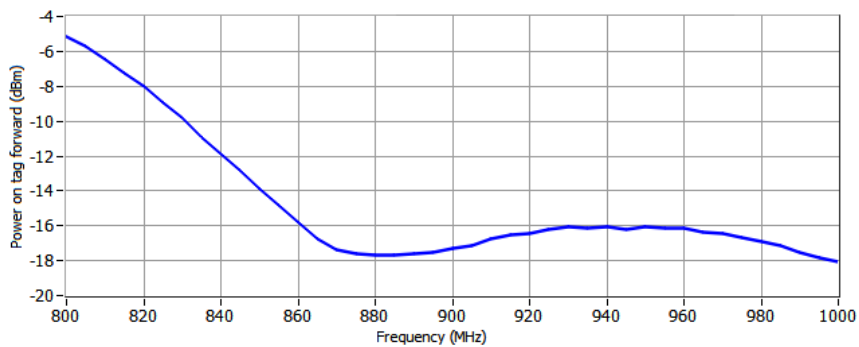


Figure 2: Sensitivity based on chip Higgs3

The graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 36dBm EIRP output power level.

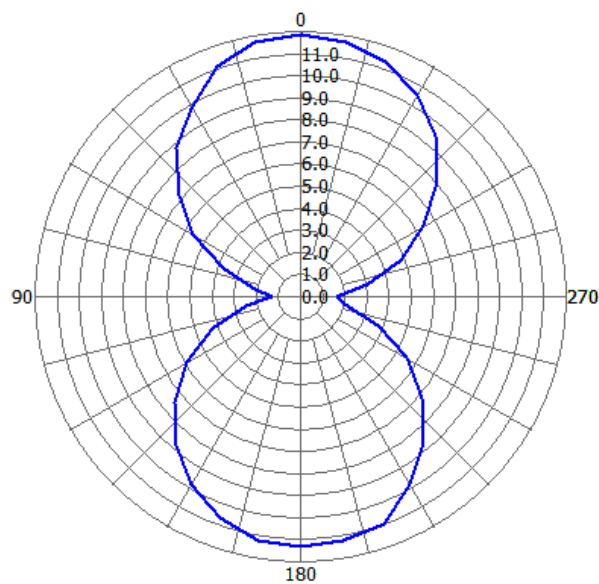


Figure 3: Read range in different direction