

OBID i-scan[®] HF

Dynamic Antenna Tuner ID ISC.DAT



FEATURES

- Easy „Plug & Play“
- Automatic tuning and retuning of HF Long Range Antennas without additional tuning devices
- Tuner is driven via HF connection
- Parameters or calibration status can be sent to the host via HF connection



SHORT DESCRIPTION

The Dynamic Antenna Tuner ID ISC.DAT is designed for automatic tuning and retuning of RFID Long Range Antennas with an operating frequency of 13.56 MHz.

The parameters for setting the antenna are measured on the board under operating conditions.

The antenna tuner is also able to disconnect the antenna circuit through an electronic switch up to a certain power.

The Dynamic Antenna Tuner ID ISC.DAT is driven over the HF connection. So the antenna tuner operates as a so-called functional unit.

Measured parameters or the calibration status can be sent to the host via the HF connection.



ORDER DESCRIPTION

ID ISC.DAT-A Dynamic Antenna Tuning Board

TECHNICAL DATA

Mechanical Data

Dimensions (W x H x D) 118 mm x 90 mm x 19 mm
Weight approx. 100 g

Electrical Data

Supply voltage 7 – 12 V DC
Current consumption maximum 150 mA (DC)
Operating frequency 13.56 MHz
Transmitting power maximum 10 W
Antenna switch electronic switch
(mind maximum antenna power!)
Antenna connection cable terminals (d = 2 – 9 mm)
Reader connection SMA socket (50Ω)
Triggering reader via RF connection
Outputs 3x open collector:
5 V DC / maximum 15 mA
Signal generator 1x „Run“-LED (green)
1x “Protocol“-LED (red)

Antenna parameters

Carrier frequency 13.56 MHz
Impedance 50Ω
Tuning range inductivity 0.7 – 2.5μH
Quality 10 – 50

Ambient conditions

Temperature range
Operation -25°C up to 75°C
Storage -40°C up to 85°C
EMC
EN 61000-6-3
EN 61000-6-2
Vibration
EN 60068-2-6
10 Hz – 150 Hz: 0.075 mm / 1 g
Shock
EN 60068-2-27
acceleration: 30 g

FEIG ELECTRONIC reserves the right to change specification without notice at any time.
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