ID DAT

DYNAMIC ANTENNA TUNER

- 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

The Dynamic Antenna Tuner ID 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 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.

DYNAMIC ANTENNA TUNER

Automatic tuning and retuning of Long Range Antennas
with an operating frequency of 13.56 MHz

Technical data

Dimensions (w x h x d)	118 mm x 90 mm x 19 mm
Weight	approx. 100 g
Operating frequency	13.56 MHz
Supply voltage	7 – 12 V DC
Current consumption	max. 150 mA (DC)
Transmitting power	max. 10 W
Antenna switch	electronic switch (mind maximum antenna power!)
Antenna connection	cable terminals (d = 2 – 9 mm)
Reader connection	SMA socket (50 Ω)
Triggering reader	via RF connection
Signal indicator	1 x "Run"-LED (green) 2 x "Protocol"-LED (red)
Outputs	3 x open collector: 5 V DC / max. 15 mA
Carrier frequency	13.56 mHz
Impedance	50 Ω
Tuning range inductivity	0.7 – 2.5 µH
Quality	10 – 50
Temperature range	
Operation	–25 °C up to +75 °C
Storage	–40 °C up to +85 °C

ID DAT

Standard conformity

EMC	EN 61000-6-3, EN 61000-6-2	
Vibration	EN 60068-2-6	10 to 150 Hz: 0.075 mm / 1 g
Shock	EN 60068-2-27	Acceleration: 30 g

Order description

ID DAT-A	Dynamic Antenna Tuning Board

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