



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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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