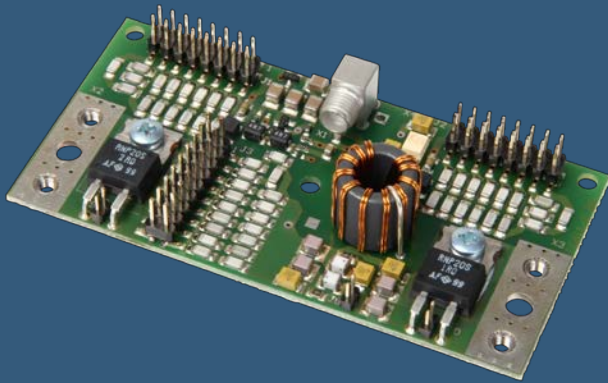


## Manual Antenna Tuner ID ISC.MAT



### FEATURES

- Universal Antenna Tuner
- Manual tuning and retuning of HF Long Range Antennas
- Available with and without switch for electronic disconnection of the antenna circuit



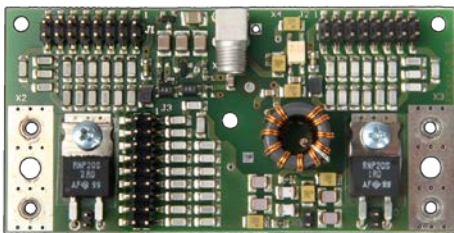
## SHORT DESCRIPTION

The tuning board ID ISC.MAT-B /-S is a manual adjustable matching circuit for construction of customized single antennas with an operating frequency of 13.56 MHz and an input impedance of 50 Ω.

In connection with an antenna conductor (e.g. aluminium band or copper pipe) antennas of different sizes and shapes can be built easily.

The tuning of the antennas takes place after assembly of the antenna conductor by using individually switchable capacitors. After that the antenna is permanently adjusted to their environment.

The tuning board ID ISC.MAT.S-A is able to disconnect the antenna circuit through a electronic switch up to a certain power to prevent coupling effects within complex antenna arrangements.



## ORDER DESCRIPTIONS

ID ISC.MAT-B	Manual Antenna Tuning Board
ID ISC.MAT.S-A	Manual Antenna Tuning Board with Switch

## TECHNICAL DATA

### Mechanical Data

Dimensions (W x H x D)

ID ISC.MAT-B 90 mm x 45 mm x 17 mm

ID ISC.MAT.S-A 90 mm x 45 mm x 19 mm

Weight approx. 35 g

### Electrical Data

Operating frequency 13.56 MHz

Transmitting power maximum 8 W

Reader connection SMA HF socket RG58

Antenna conductor connection Double-sided solder surface with hole for screw attachment (M3)

### Antenna parameters

Carrier frequency 13.56 MHz

Impedance 50Ω

Tuning range inductivity 0.6 – 2.5μH

Quality 10 – 50

### Ambient conditions

Temperature range

Operation -25°C up to 55°C

Storage -25°C up to 60°C

Vibration EN 60068-2-6

10 Hz – 150 Hz: 0.075 mm / 1 g

Shock EN 60068-2-27

acceleration: 30 g