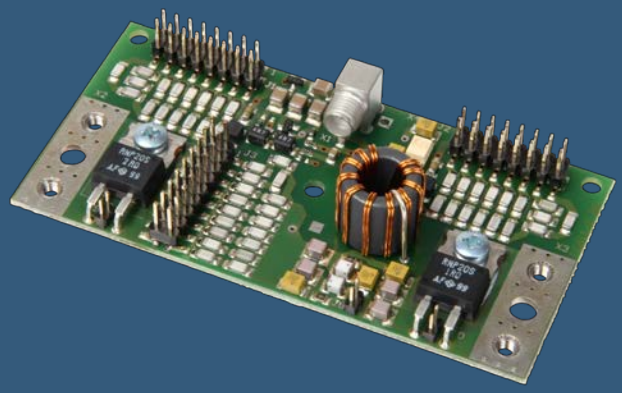
OBID®
Welcome to RFID

Manual Antenna Tuner
ID ISC.MAT



FEATURES

- Easy „Plug & Play“
- Manual 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
- Available with and without switch for electronic disconnection of the antenna circuit

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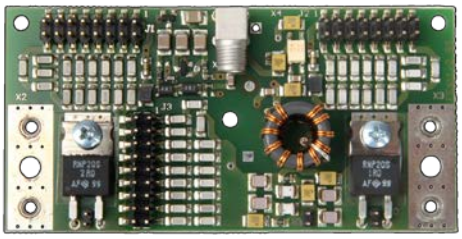
SHORT DESCRIPTION

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, copper pipe or the outer sheath of RG213 cables) 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. A retuning of the antenna could be possible if the antenna is mounted on a place with different ambient conditions.

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



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

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