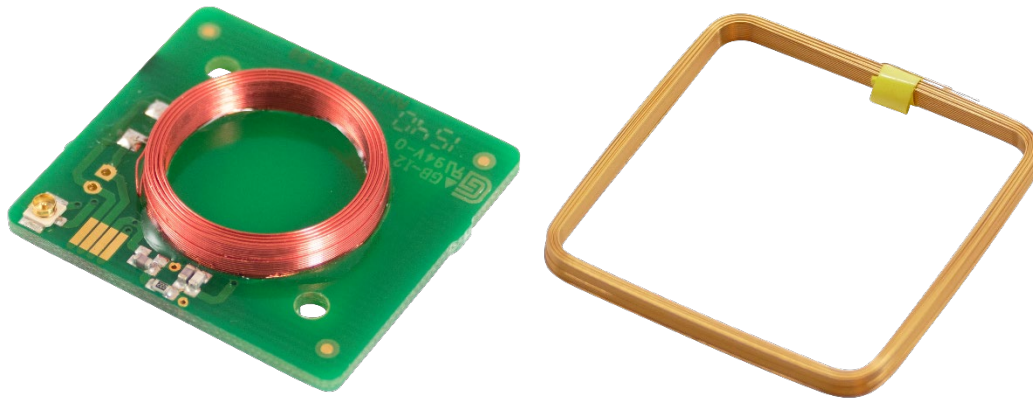


## External antennas for RFID readers and modules



Exemplary illustrations  
(left: PCB antenna; right: aircoil antenna)

The ELATEC product portfolio also contains a wide range of accessories, like wall holders, additional cables or RFID antennas, that are perfectly suited for use with the different ELATEC devices. As part of the accessory portfolio, ELATEC offers external LF and HF antennas (aircoil antennas, PCBs) that can be used for various applications and devices, like RFID modules without integrated antenna or development boards intended for test applications.



Elevator



EV Chargers



Access



Shop POS



Fitness  
Equipment



Ticket POS



PC Log-on



Document  
Management



Driver ID



Vending



Parking



Gaming



Locker Locks



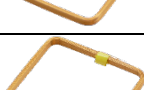



Time  
Attendance




Industrial  
PC

### SINGLE-FREQUENCY ANTENNAS (LF)

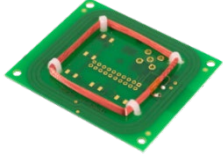

Illustration (exemplary)	Technical data	Dimensions	Order code
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Inner $\varnothing$ : 47.00 mm / 1.85 inch Outer $\varnothing$ : 52.00 mm / 2.05 inch Height: 4.00 mm / 0.16 inch	ANT-002
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Inner $\varnothing$ : 5.10 mm / 0.20 inch Outer $\varnothing$ : 5.17 mm / 0.21 inch Height: 4.00 mm / 0.16 inch	ANT-004
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Length: 40.00 mm / 1.57 inch Width: 20.00 mm / 0.79 inch Height: 3.20 mm / 0.13 inch	ANT-005
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Inner $\varnothing$ : 17.00 mm / 0.67 inch Outer $\varnothing$ : 20.80 mm / 0.82 inch Height: 4.00 mm / 0.16 inch	ANT-006
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Length: 57.00 mm / 2.27 inch Width: 36.00 mm / 1.42 inch Height: 3.00 mm / 0.12 inch	ANT-007
	Type: ferrite antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Outer $\varnothing$ : 8.5 mm / 0.34 inch Height: 21.00 mm / 0.83 inch	ANT-010
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Length: 41.00 mm / 1.61 inch Width: 30.00 mm / 1.18 inch Height: 2.00 mm / 0.08 inch	ANT-013
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Length: 30.00 mm / 1.18 inch Width: 28.00 mm / 1.10 inch Height: 3.00 mm / 0.12 inch	ANT-015
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Length: 31.00 mm / 1.22 inch Width: 31.00 mm / 1.22 inch Height: ~2.00 mm / 0.08 inch	ANT-031
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Length: 27.50 mm / 1.08 inch Width: 15.00 mm / 0.59 inch Height: 2.50 mm / 0.10 inch	ANT-033
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Inner $\varnothing$ : 16.00 mm / 0.63 inch Outer $\varnothing$ : 20.40 mm / 0.80 inch Height: 2.00 mm / 0.08 inch	ANT-036
	Type: aircoil antenna Frequency: 125 kHz Inductance: 490 $\mu$ H $\pm$ 5%	Inner $\varnothing$ : 14.10 mm / 0.56 inch Outer $\varnothing$ : 16.30 mm / 0.64 inch Height: 2.20 mm / 0.09 inch	ANT-039

### SINGLE-FREQUENCY ANTENNAS (HF)

Illustration (exemplary)	Technical data	Dimensions	Order code
	Type: PCB antenna Frequency: 13.56 MHz Impedance: 50 Ω Connector: UMCC/U.FL Cables: CAB-L1 <sup>1)</sup>	Length: 40.00 mm / 1.57 inch Width: 20.00 mm / 0.79 inch Height: 2.20 mm / 0.09 inch	ANT-032

<sup>1)</sup>UMCC antenna cable, 100 mm, female to female, for 13.56 MHz, right angle

### MULTI-FREQUENCY ANTENNAS (LF/HF)

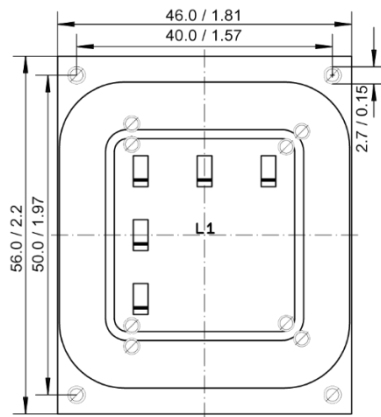
Illustration (exemplary)	Technical data	Dimensions	Order code
	Type: PCB antenna Frequencies: 125 kHz, 134.2 kHz, 13.56 MHz Inductance (LF): 490 μH ± 5% Impedance (HF): 50 Ω LF connector: pin header HF connector: UMCC/U.FL, pads for SMA, SMB or SMC connectors available Cables: CAB-L1 <sup>1)</sup> , CAB-F1 <sup>2)</sup>	Length: 56.00 mm / 2.20 inch Width: 46.00 mm / 1.81 inch Height: 6.00 mm / 0.24 inch	ANT-022
	Type: PCB antenna Frequencies: 125 kHz, 134.2 kHz, 13.56 MHz Inductance (LF): 490 μH ± 5% Impedance (HF): 50 Ω LF connector: pads 1 mm / 0.04 inch HF connector: UMCC/U.FL, pads 1 mm / 0.04 inch Cables: CAB-L1 <sup>1)</sup> , CAB-F1 <sup>2)</sup>	Length: 33.00 mm / 1.30 inch Width: 30.00 mm / 1.18 inch Height: 6.00 mm / 0.24 inch	ANT-023

<sup>1)</sup>UMCC antenna cable, 100 mm, female to female, for 13.56 MHz, right angle

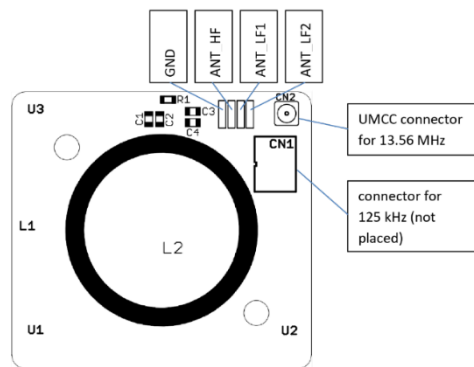
<sup>2)</sup>Flat ribbon antenna cable, 100 mm, AWG26, 2-pol, 3 mm tinned on both sides, for 125 kHz

TECHNICAL DRAWINGS<sup>1)</sup>

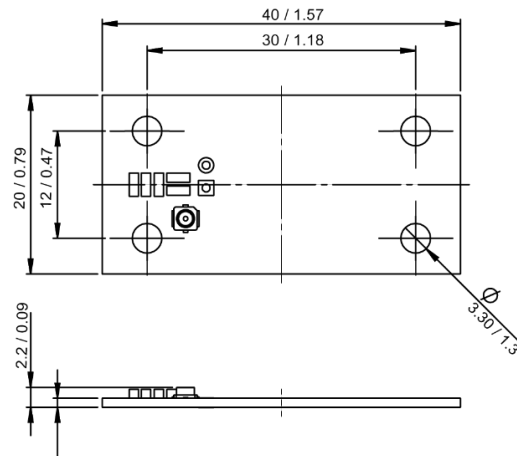
ANT-022



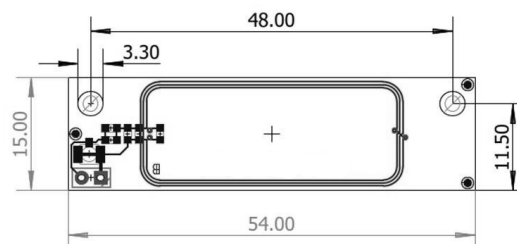
ANT-023



ANT-032



ANT-037



<sup>1)</sup>All measures in mm

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