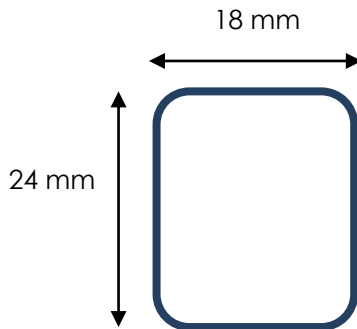


Datasheet KSENIA VOLO IN antenna

Manufacturer information	Name	Ksenia Security S.p.A.																							
	Logo																								
	Address	Strada Provinciale Valtesino, 49 63065 - Ripatransone (AP) – Italy www.kseniasecurity.com																							
Antenna identification	Model	VOLO IN																							
	Description	Proximity Reader																							
Antenna Information	Operating frequency	13.56 MHz																							
	Reader reference standard	ISO/IEC 14443 type A & B																							
	Typology	Rectangular loop antenna made of nr. 6 loops with size 18 x 24 mm																							
	Constituent materials	Enameled copper wire (diameter 0,3 mm)																							
	Theoretical Inductance	2,51 uH																							
	Antenna connector	Not present*, the loop wire is soldered on the pcb of reader module																							
	Notes	*The reader module is equipped with a four-pin screw connector for power supply (13,8Vdc) and data exchange (RS485).																							
	Shape details with dimensions																								
Module bill of materials	<table><tr><th>Description</th><th>Qt.</th></tr><tr><td>Volo IN PCB</td><td>1</td></tr><tr><td>Capacitor SMD 0805 (6V3, 10u)</td><td>1</td></tr><tr><td>Capacitor SMD 1210 X5R 10% (25V, 10uF)</td><td>1</td></tr><tr><td>Capacitor SMD 0402 X5R 10% (25V, 100n)</td><td>13</td></tr><tr><td>Capacitor SMD 0402 X7R 10% (25V, 47n)</td><td>4</td></tr><tr><td>Capacitor SMD 0603 X5R 10% (6V3, 1u)</td><td>2</td></tr><tr><td>Capacitor SMD 0402 COG/NP0 5% (50V, 1n5)</td><td>2</td></tr><tr><td>Capacitor SMD 0402 COG/NP0 ±0.1p (50V, 1p)</td><td>1</td></tr><tr><td>Capacitor SMD 0402 COG/NP0 5% (50V, 1n)</td><td>1</td></tr><tr><td>Capacitor SMD 0402 X5R 20% (6V3, 2u2)</td><td>5</td></tr></table>			Description	Qt.	Volo IN PCB	1	Capacitor SMD 0805 (6V3, 10u)	1	Capacitor SMD 1210 X5R 10% (25V, 10uF)	1	Capacitor SMD 0402 X5R 10% (25V, 100n)	13	Capacitor SMD 0402 X7R 10% (25V, 47n)	4	Capacitor SMD 0603 X5R 10% (6V3, 1u)	2	Capacitor SMD 0402 COG/NP0 5% (50V, 1n5)	2	Capacitor SMD 0402 COG/NP0 ±0.1p (50V, 1p)	1	Capacitor SMD 0402 COG/NP0 5% (50V, 1n)	1	Capacitor SMD 0402 X5R 20% (6V3, 2u2)	5
	Description	Qt.																							
	Volo IN PCB	1																							
	Capacitor SMD 0805 (6V3, 10u)	1																							
	Capacitor SMD 1210 X5R 10% (25V, 10uF)	1																							
	Capacitor SMD 0402 X5R 10% (25V, 100n)	13																							
	Capacitor SMD 0402 X7R 10% (25V, 47n)	4																							
	Capacitor SMD 0603 X5R 10% (6V3, 1u)	2																							
	Capacitor SMD 0402 COG/NP0 5% (50V, 1n5)	2																							
	Capacitor SMD 0402 COG/NP0 ±0.1p (50V, 1p)	1																							
	Capacitor SMD 0402 COG/NP0 5% (50V, 1n)	1																							
	Capacitor SMD 0402 X5R 20% (6V3, 2u2)	5																							

	Module bill of materials	Capacitor SMD 0402 COG/NP0 5% (50V, 1n2)	2
		Capacitor SMD 0402 COG/NP0 5% (50V, 680p)	2
		Capacitor SMD 0402 COG/NP0 5% (50V, 220p)	1
		Capacitor SMD 0402 COG/NP0 5% (50V, 100p)	1
		Capacitor SMD 0402 COG/NP0 $\pm 0.25p$ (50V, 4p7)	1
		Capacitor SMD 0402 COG/NP0 $\pm 0.25p$ (50V, 4p7)	1
		Capacitor SMD 0402 COG/NP0 5% (50V, 33p)	2
		Capacitor SMD 0402 COG/NP0 5% (50V, 47p)	1
		Capacitor SMD 0402 X7R 5% (16V, 22n)	1
		Diode 50V 1A DO-214	1
		TVS bidirectional DO-214 (14V)	1
		TVS unidirectional DO-214 (13V)	2
		Led SMD side view (RGB)	1
		Inductor SMD 0805 (150n)	1
		Inductor SMD 0805 (330n)	1
		Screw Connector h10mm pitch 5mm (4 positions)	2
		Resistor SMD 1206 5% (2R2)	2
		Resistor SMD 0402 5% (330R)	2
		Resistor SMD 0402 5% (33R)	1
		Resistor SMD 0402 5% (10k)	2
		Resistor SMD 0402 5% (120R)	3
		Resistor SMD 0402 5% (100k)	5
		Resistor SMD 0402 5% (1k)	1
		Resistor SMD 0402 5% (6k8)	1
		Resistor SMD 0402 5% (0R0)	1
		Resistor SMD 0402 5% (22k)	1
		Resistor SMD 0402 5% (68k)	1
		DC/DC linear 3.3V 1A SOT223 (AZ1117)	1
		Driver RS485 3.3-5V SOIC8 (XR33038IDTR-F)	1
		ATSAMD20G17A-AU	1
		RFID reader (TRF7963ARHBR)	1
		Resonator SMD 8MHz	1
		Quartz SMD 13.56MHz 5x3.2	1
		Ferrite bead 600Ohm 0603 (BLM18KG601SN1D)	1
		Enameled copper wire loop antenna	1
Enclosure mechanical characteristics	External Dimension	Length: 46 mm Width: 19 mm Depth: 44 mm	

Module
appearance

