

MICROIQ Antenna Information

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(2.4-2.5GHz): Chip antenna, Johanson 2450AT18D0100E. Avg Gain -1dBi, Max Gain 1.5dBi.

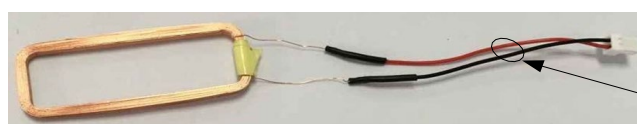
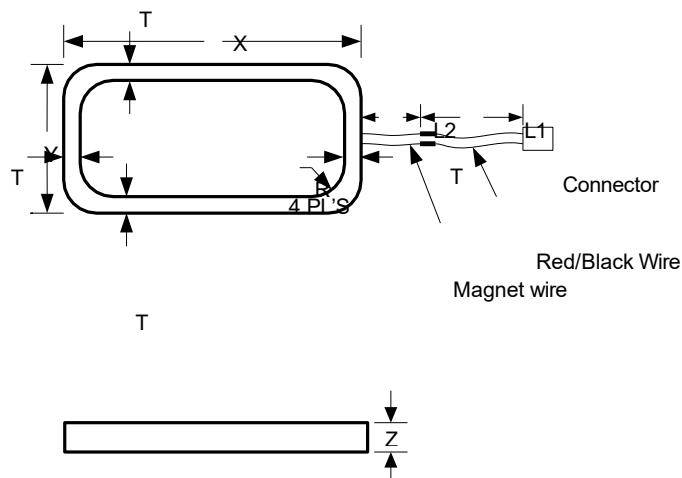
General Specifications	
Part Number	2450AT18D0100E
Frequency (GHz)	2.4 - 2.5
Peak Gain (dBi)	1.5 typ. (XZ-total)
Average Gain (dBi)	-1.0 typ. (XZ-total)
Radiated Efficiency ¹	72%
Return Loss (dB)	10 min.
Impedance (Ω)	50
Input Power (W)	3 max. (CW)
Operating Temperature	-40 to +125°C
Recommended Storage Conditions and Period for unused Product on T&R	+5 to +35°C Humidity 45 - 75% RH 18 months max.
Reel Quantity (pcs./reel)	3,000

(13.56MHz): Coil antenna, 50 ohms, antenna is copper traces on the keypad circuit board with matching network, and then connected to an IC dedicated to HF protocols and signaling.

(125kHz): Coil antenna, 768uH, 125kHz/1V.

125KHz RFID Reader Antenna Coil Specification

- 1) Inductance = 768uH ($\pm 5\%$) – Test Condition = 125KHz/1Volt
- 2) Major Parameter = Inductance
- 3) Winding Direction = CW
- 3) X = 33mm (± 1.0 mm)
- 4) Y = 12.5mm (± 0.5 mm)
- 5) Z = 2.0mm maximum
- 6) T = 1.7mm (± 0.5 mm)
- 6) L1 = 50mm (± 3.0 mm)
- 7) L2 = 15mm (± 2.0 mm)
- 8) R = 1.5
- 9) Connector = JST SHR-02V-S



Wire Type = AWG 30 UL 1571 Coil Picture