

## 1334 SMD RF Manual Tunable Inductor

Patent product

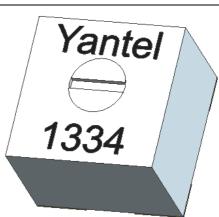
# SMD RF Manual Tunable Inductor 1334

- Operated frequency: 20~300 MHz
- Q value:76(no core) , 45(full core)
- Inductance tuning range: 158 to 214(nH)
- ◆ Core material: Aluminum
- ◆ SRF: 470MHz
- ◆ Operating temperature: -40 ~+125
- **•** Rotation times(min): 100

#### Features

- SMD package
- High temperature resistance, operating reliably from -40
   ~125 and in other harsh environment
- Hermetic microstrip circuit, reliable and stable over temperature and humidity changes.
- High Q value, linear tunable, available in increasing or decreasing inductance value
- Built with advanced multi-layer processing, high consistence and high reliabili
   -y in manufacturing, contributing to good consistence in tuning resonant circui
- Anti-interference with non-magnetic core, no interference with other devices
- Small size: 4.2 × 4.2 × 3(mm)
- Termination leads: RoHS compliant, tin or gold over copper
- Low cost, high performance

Characteristic



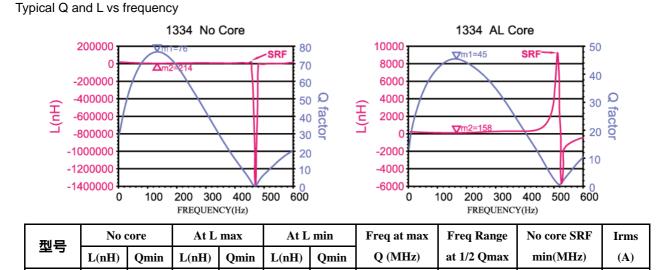
## Applications

- Super Regenerative Receiver Module
- RF Impedance Matching
- Tunable Antennas
- Tuning Resonant Circuit
- Tunable Filter
- Phase Shifter
- Phased Array Radar
- MRI(Magnetic Resonance Imaging)
- NMR(Nuclear Magnetic Resonance)
- Crystal Oscillator

20~300

470

Broadband Antenna



#### Notes:

1334

214

76

1. Operating frequency is based on the half of the maximum Q value.

214

76

#### Yantel Corporation

45

140

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For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

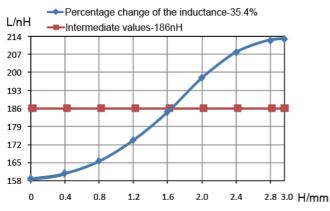
158

1.4



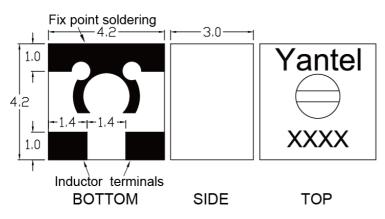
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#### Inductance VS The height of the core rotation



## Package Outlines

All dimensions shown in mm unless stated otherwise



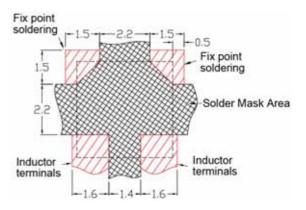
#### H represents the height of Al core rotation, H max=3mm.

Notes

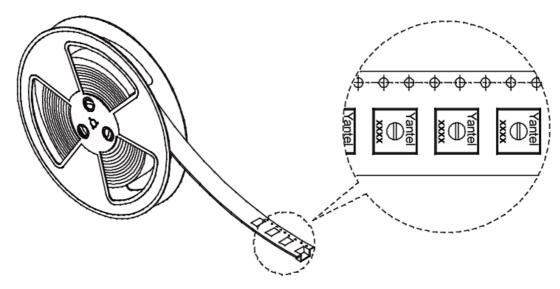
2. Inductance changes around the intermediate value.

## **Recommended Layout**

All dimensions shown in mm unless stated otherwise



## **Tape and Reel Drawing**



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