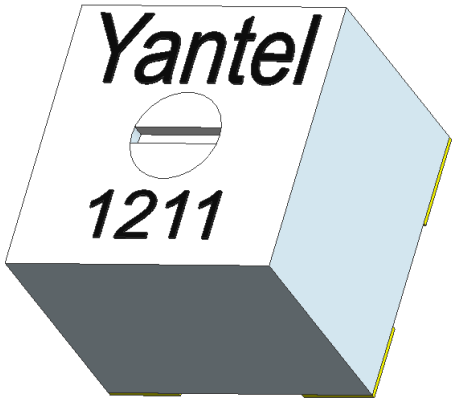
Variable RF Indctor
1211



- **Operated frequency: 280~4800 MHz**
- **Q value: 130(no core) , 93(full core)**
- **Inductance tuning range: 3.37 to 4.1(nH)**
- **Core material: Aluminum**
- **SRF: 6.4 GHz**
- **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.
- Excellent RF performance, operating from 30MHz to 6GHz.
- High Q value, linear tunable, available in increasing or decreasing inductance value
- Built with advanced multi-layer processing, high consistence and high reliabilit -y in manufacturing, contributing to good consistence in tuning resonant circuit
- Anti-interference with non-magnetic core, no interference with other devices
- Small size: 3×3×2.5(mm)
- Termination leads: RoHS compliant, tin or golden over copper
- Low cost, high performance

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
- Broadband Antenna

Part No.	No core		At L max		At L min		Freq at max Q (MHz)	Freq Range at 1/2 Qmax	No core SRF min(MHz)	Irms (A)
	L(nH)	Qmin	L(nH)	Qmin	L(nH)	Qmin				
1211	4.1	130	4.1	130	3.37	93	2100	280~4800	6400	1.7

Notes:

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

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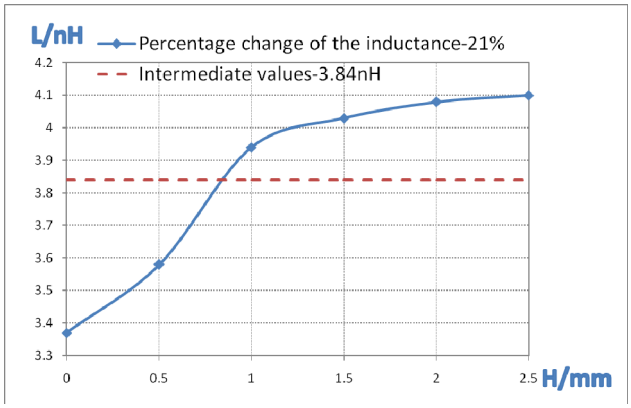
Inductance VS The height of the core rotation

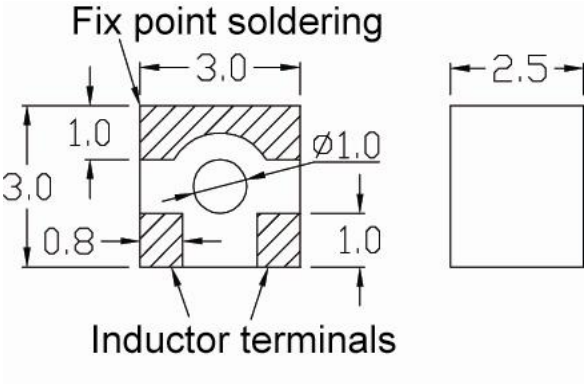


Notes

1. H represents the height of Al core rotation, H max=2.5mm.
2. Inductance changes around the intermediate value.

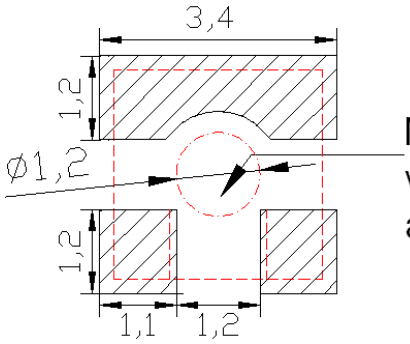
Package Outlines

All dimensions shown in mm unless stated otherwise

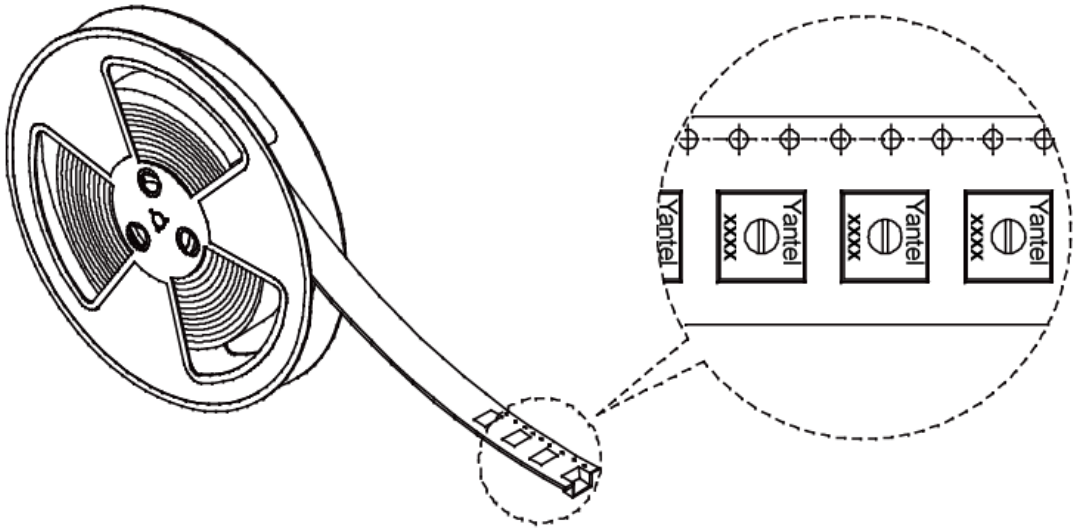


Recommended Layout

All dimensions shown in mm unless stated otherwise



Tape and Reel Drawing



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