

SMD RF Manual Tunable Inductor 2715

- ◆ Operated frequency: 10~140 MHz
- ◆ Q value: 66(no core) , 42(full core)
- ◆ Inductance tuning range: 527to 680(nH)
- ◆ Core material: Aluminum
- ◆ SRF: 200MHz
- ◆ Operating temperature: -40 ~+125
- ◆ Rotation times(min): 100



Features

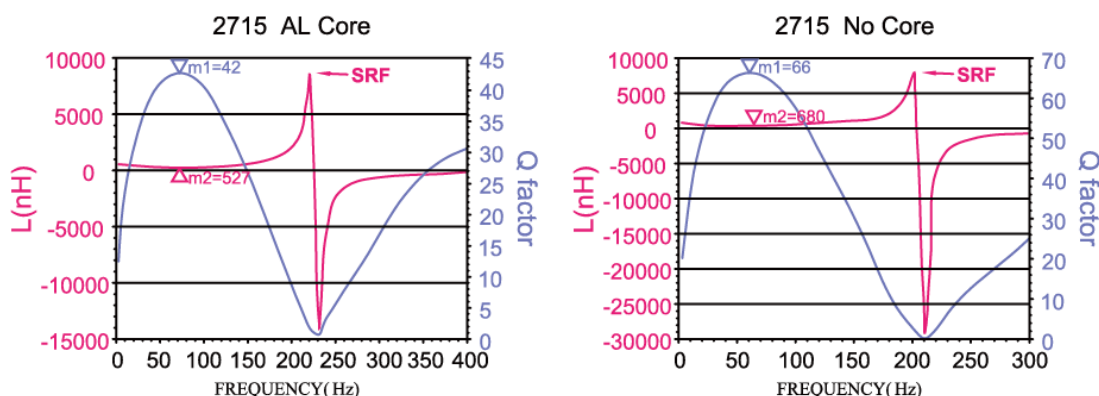
- SMD package
- High temperature resistance, operating reliably from -40 ~125 and in other harsh environment
- Hermetic microstrip circuit, reliable and stable over temperature and humidity changes.
- High Q value, linear tunable, available in increasing or decreasing inductance value
- Built with advanced multi-layer processing, high consistence and high reliability in manufacturing, contributing to good consistence in tuning resonant circuit
- Anti-interference with non-magnetic core, no interference with other devices
- Small size: 6 × 6 × 2.5 (mm)
- Termination leads: RoHS compliant, tin or gold 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

Characteristic

Typical Q and L vs frequency

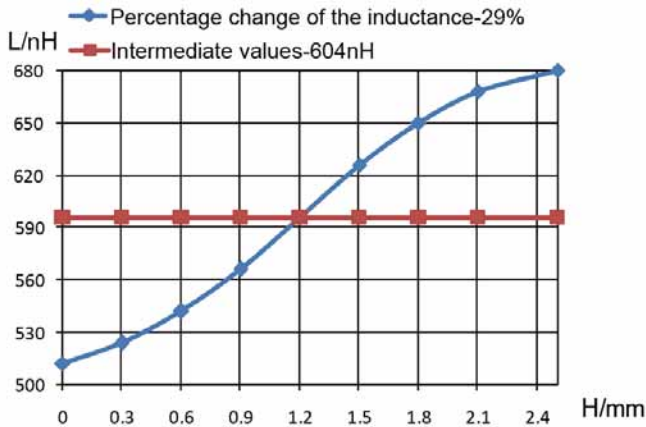


| 型号 | No core | | At L max | | At L min | | Freq at max Q (MHz) | Freq Range at 1/2 Qmax | No core SRF min(MHz) | Irms (A) |
|------|---------|------|----------|------|----------|------|------------------------|---------------------------|-------------------------|-------------|
| | L(nH) | Qmin | L(nH) | Qmin | L(nH) | Qmin | | | | |
| 2715 | 680 | 66 | 680 | 66 | 527 | 42 | 65 | 10~140 | 200 | 1.1 |

Notes:

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

Inductance VS The height of the core rotation

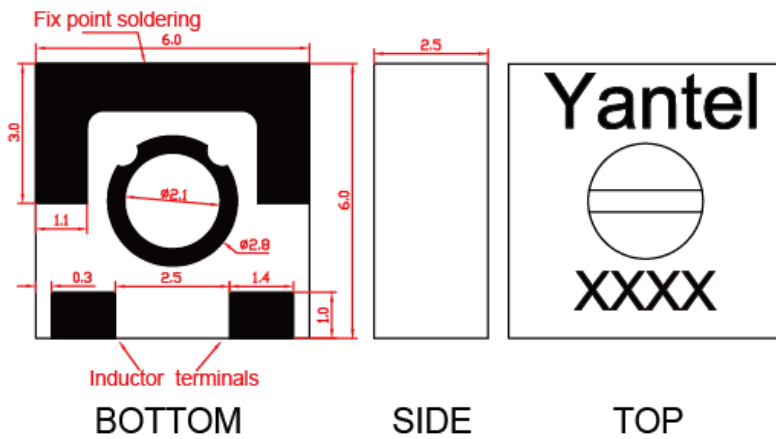


Notes

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

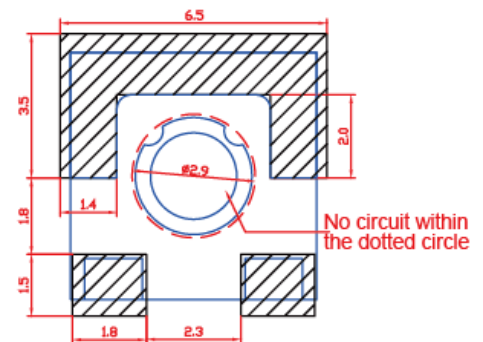
Package Outlines

All dimensions shown in mm unless stated otherwise

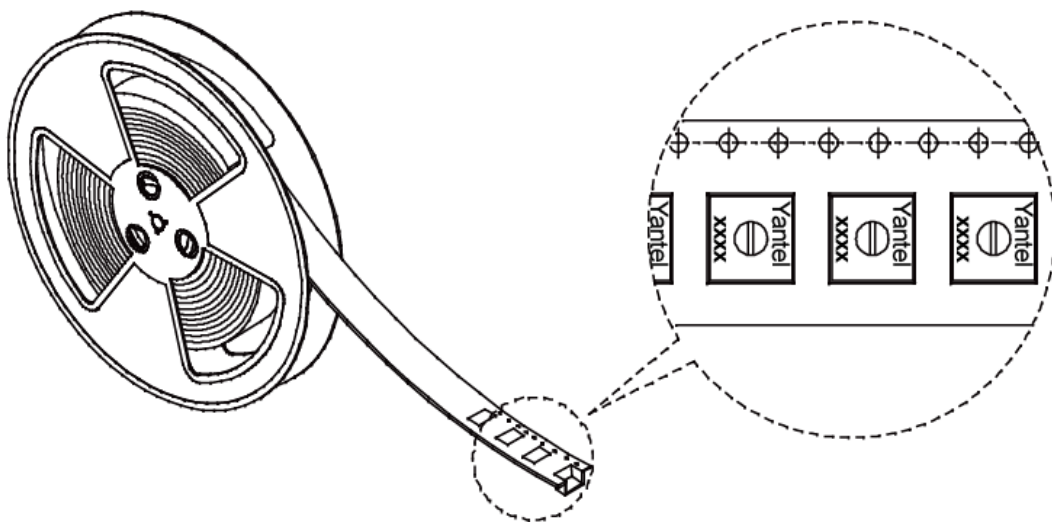


Recommended Layout

All dimensions shown in mm unless stated otherwise



Tape and Reel Drawing



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