

Variable RF Inductor 1323

- ◆ Operated frequency: 1700 MHz
- ◆ Q value: 90(no core) , 71(full core)
- ◆ Inductance tuning range: 8.1 to 10.2(nH)
- ◆ Core material: Aluminum
- ◆ SRF: 3.2 GHz
- ◆ Operating temperature: -40 ~+125
- ◆ Rotation times(min): 100



Features

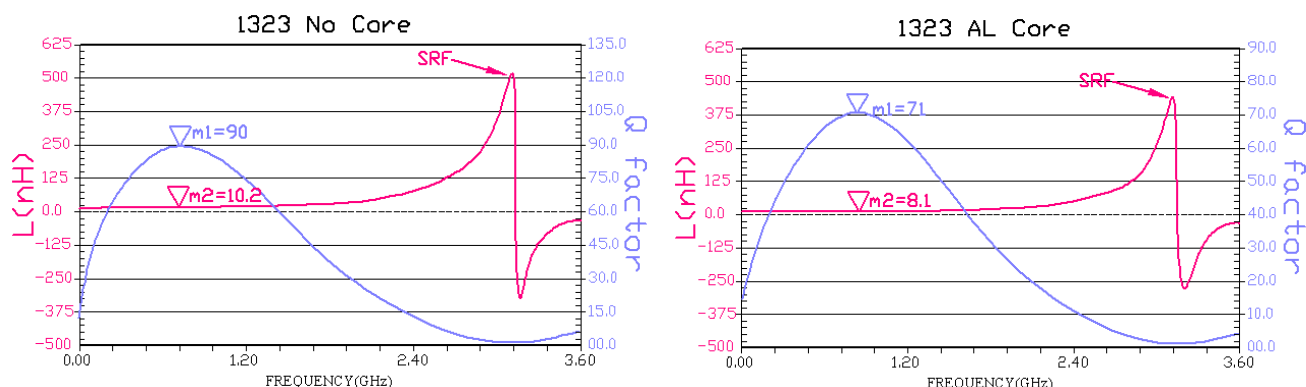
- SMD package, able to be mounted or soldered on the PCB.
- High temperature resistant, operating temperature: -40 ~+125 .
- Keep excellent & stable performance at high temperature.
- Operated in RF frequency band.
- High Q value.
- Good air tightness to realize high Q value.
- Small size: 4.2 × 4.2 × 3(mm).
- Easy to adjust.
- Core material: Aluminum or Ferrite.
- Termination: RoHS compliant tin over copper.

Applications

- 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

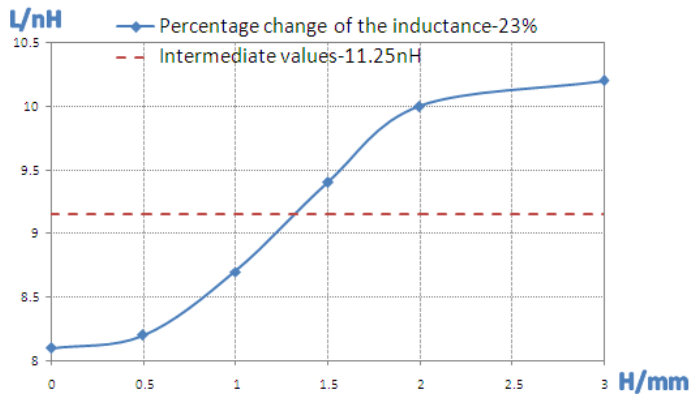


| Part No. | No core | | At L max | | At L min | | Freq (MHz) | No core SRF min(MHz) | Irms (A) |
|----------|---------|-------|----------|-------|----------|-------|---------------|-------------------------|-------------|
| | L(nH) | Q min | L(nH) | Q min | L(nH) | Q min | | | |
| 1323 | 10.2 | 90 | 10.2 | 90 | 8.1 | 71 | 1700 | 3200 | 2.1 |

Notes:

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

Inductance VS The height of the core rotation

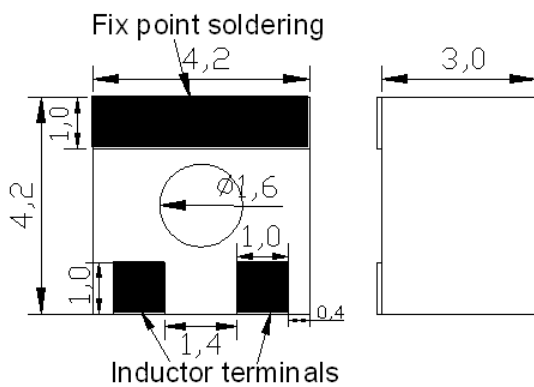


Notes

1. H represents the height of Al core rotation, H max=3mm.
2. Inductance changes around the intermediate value.

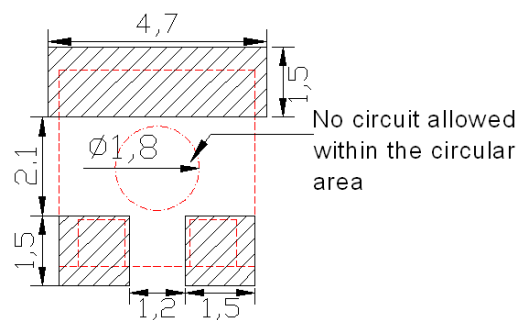
Package Outlines

All dimensions shown in mm unless stated otherwise



Recommended Layout

All dimensions shown in mm unless stated otherwise



Tape and Reel Drawing

