1325
Variable RF Inductor
Patent pending

Variable RF Indctor
1325

- **Operated frequency: 980 MHz**
- **Q value: 90(no core) , 65(full core)**
- **Inductance tuning range:15.2 to 19.4(nH)**
- **Core material: Aluminum**
- **SRF: 2.0 GHz**
- **Operating temperature: -40℃~+125℃**
- **Rotation times(min): 100**

Features

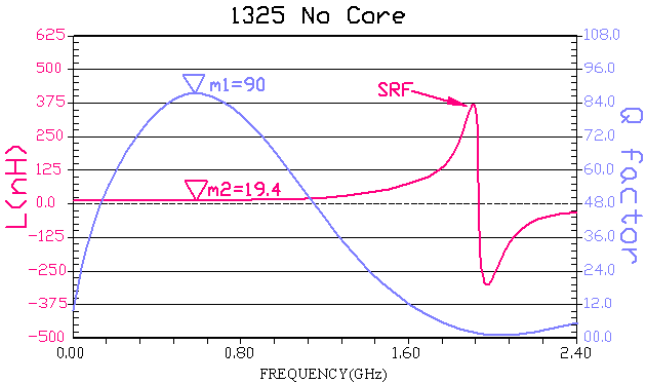
- SMD package, able to be mounted or soldered on the PCB.
- High temperature resistant, operating temperature: -40℃~+125℃.
- Keep excellent & stable performance at high temperature.
- Operated in RF frequency band.
- High Q value.
- Good air tightness to realize high Q value.
- Small size: 4.2×4.2×3(mm).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

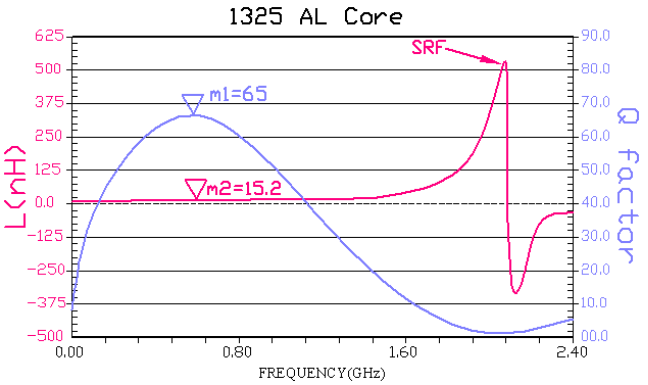
Applications

- 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





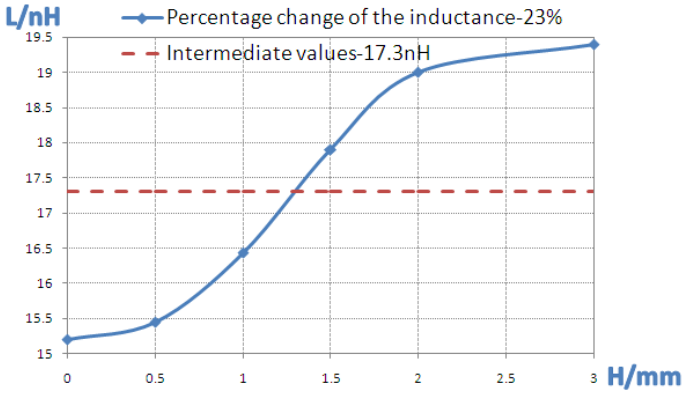
Part No.	No core		At L max		At L min		Freq	No core SRF	Irms
	L(nH)	Q min	L(nH)	Q min	L(nH)	Q min	(MHz)	min(MHz)	(A)
1325	19.4	90	19.4	90	15.2	65	980	2000	2.1

Notes:

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

Yantel Corporation
Add：2F, Building 2, Gaofa Technology Park, LongJing, Nanshan Area, Shenzhen, China
Tel：86-755-8355-1886 Fax：86-755-8355-2533
For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Inductance VS The height of the core rotation

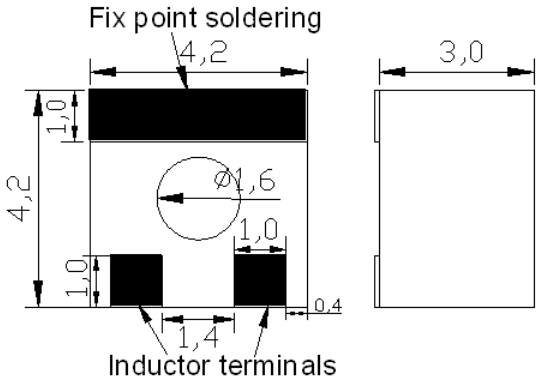


Notes

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

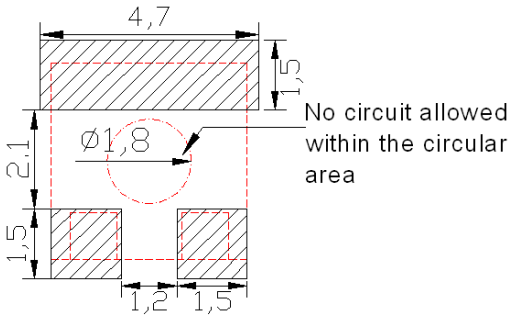
Package Outlines

All dimensions shown in mm unless stated otherwise



Recommended Layout

All dimensions shown in mm unless stated otherwise



Tape and Reel Drawing