2429
Variable RF Inductor
Patent pending

Variable RF Indctor
2429

- **Operated frequency: 340 MHz**
- **Q value: 68(no core) , 52(full core)**
- **Inductance tuning range: 62 to 75(nH)**
- **Core material: Aluminum**
- **SRF: 720 MHz**
- **Operating temperature: -40℃~+125℃**
- **Rotation times(min): 100**

Features

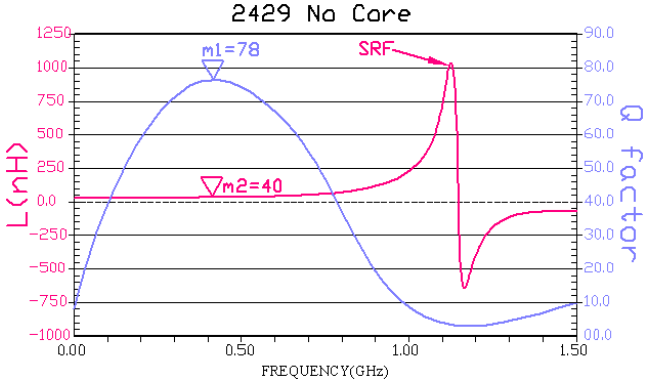
- SMD package, able to be mounted or soldered on the PCB.
- Operated in RF frequency band, up to 6GHz.
- High Q value.
- Operating temperature:-40℃~+125℃.
- Keep excellent & stable performance at high temperature.
- Good air tightness to realize high Q value.
- Small size: 5×5×3(mm).
- Easy to adjust.
- Core material: Aluminum or Ferrite.
- Termination: RoHS compliant tin over copper.

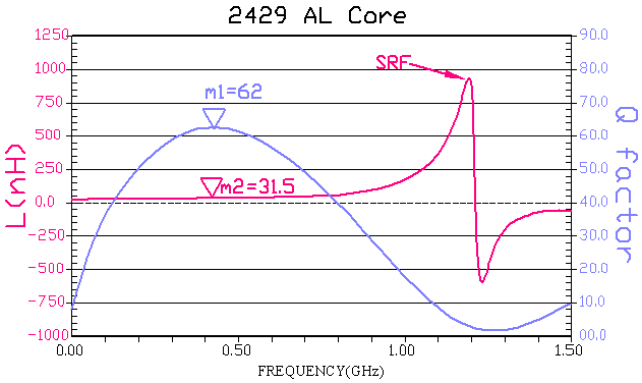
Applications

- 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)
2429	75	68	75	68	62	52	340	720	3.0

Notes:

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

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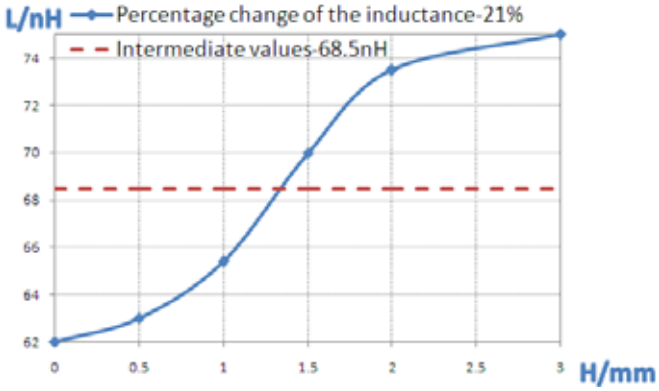
Inductance VS The height of the core rotation

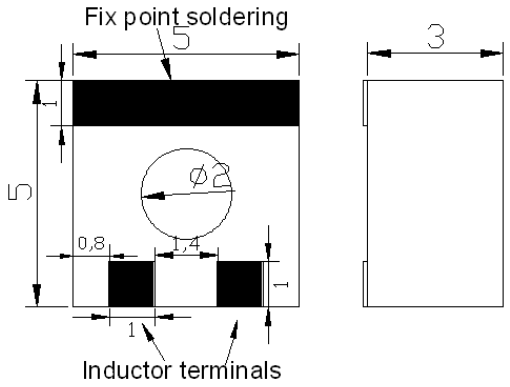


Notes

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

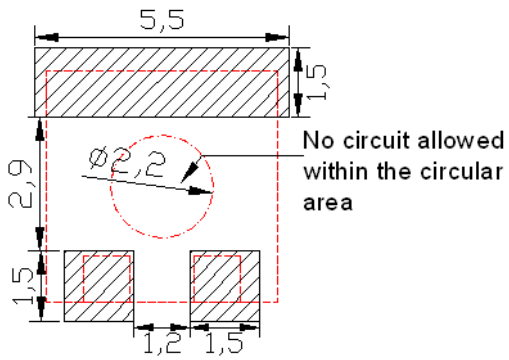
Package Outlines

All dimensions shown in mm unless stated otherwise



Recommended Layout

All dimensions shown in mm unless stated otherwise



Tape and Reel Drawing