

Variable RF Indctor 1224

♦ Operated frequency: 1600 MHz

♦ Q value: 86(no core), 68(full core)

♦ Inductance tuning range: 10.3 to 12(nH)

♦ Core material: Aluminum

♦ SRF: 2.9 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: $3 \times 3 \times 3$ (mm).

Easy to adjust.

Core material: Aluminum or Ferrite.

Termination: RoHS compliant tin over copper.

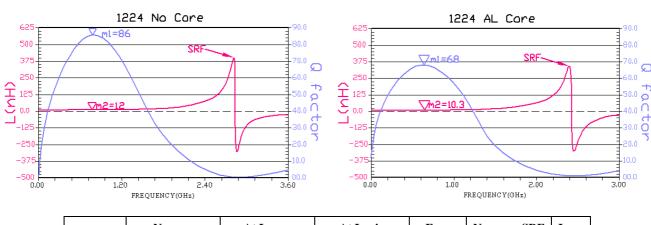


Applications

- 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



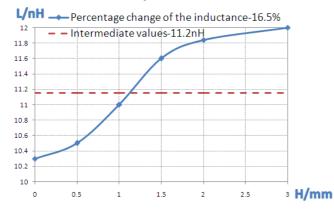
Part No.	No core		At L max		At L min		Freq	No core SRF	Irms	
	L(nH)	Q min	L(nH)	Q min	L(nH)	Q min	(MHz)	min(MHz)	(A)	
1224	12	86	12	86	10.3	68	1600	2900	1.7	

Notes:

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



Inductance VS The height of the core rotation

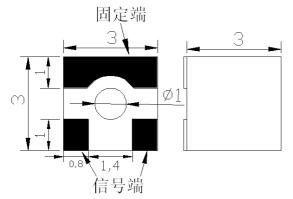


Notes

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

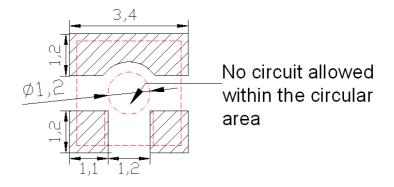
Package Outlines

All dimensions shown in mm unless stated otherwise



Recommended Layout

All dimensions shown in mm unless stated otherwise



Tape and Reel Drawing

