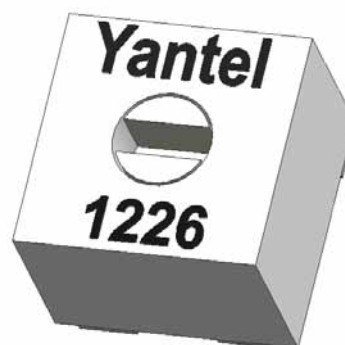


Variable RF Inductor 1226

- ◆ Operated frequency: 900 MHz
- ◆ Q value: 68 (no core) , 58(full core)
- ◆ Inductance tuning range: 21 to 24(nH)
- ◆ Core material: Aluminum
- ◆ SRF: 1830 MHz
- ◆ Operating temperature: -40 ~+125
- ◆ Rotation times(min): 100



Features

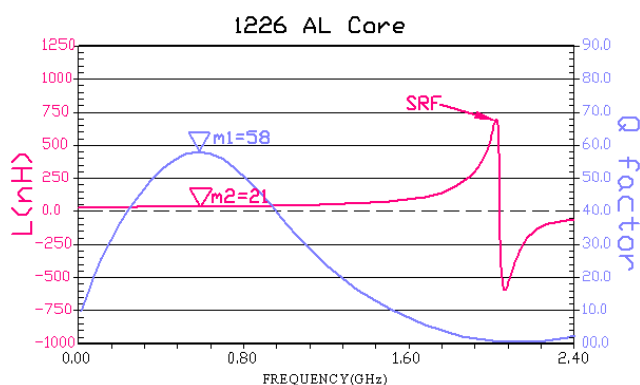
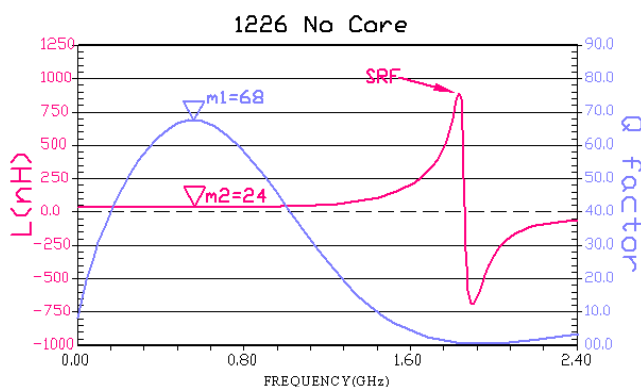
- SMD package, able to be mounted or soldered on the PCB.
- High temperature resistant, operating temperature: -40 ~+125 .
- Keep excellent & stable performance at high temperature.
- Operated in RF frequency band.
- High Q value.
- Good air tightness to realize high Q value.
- Small size: 3 × 3 × 3(mm).
- 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			
1226	24	68	24	68	21	58	900	1830	1.5

Notes:

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

Percentage change of the inductance-14%

Intermediate values-22.5nH

H/mm	L/NH
0	21.0
0.5	21.4
1.0	22.2
1.5	23.1
2.0	23.6
3.0	24.0

1. H represents the height of Al core rotation, $H_{\max}=3\text{mm}$.
2. Inductance changes around the intermediate value.

Technical drawing of a microstrip antenna. The left part shows the top view with dimensions: total width 3, total height 3, a central circular hole with diameter $\varnothing 1$, and a semi-circular notch at the top with a radius of 1. The right part shows the side view, which is a rectangle with a width of 3. Labels include "固定端" (Fixed end) at the top, "信号端" (Signal end) at the bottom, and numerical values 0.8 and 1.4 indicating specific horizontal dimensions.

Technical drawing of a mechanical part. The part has a total width of 3,4 and a total height of 1,2. A central circular hole has a diameter of $\varnothing 1,2$. The hole is positioned 1,1 from the left edge and 1,2 from the bottom edge. A section line is drawn through the part, with arrows pointing to the right.

No circuit allowed within the circular area

The diagram shows a magnetic tape reel on the left. A section of the tape is unspooled and shown in a callout on the right. The callout illustrates the tape's internal structure, which consists of a series of rectangular blocks. Each block contains a circular pattern with a horizontal line through it, and the word 'Varietel' is written vertically on the right side of each block. The blocks are separated by horizontal lines, and the entire structure is enclosed in a dashed oval.