

**Variable RF Inductor**  
**1328**

- ◆ Operated frequency: 480 MHz
- ◆ Q value: 78(no core) , 60(full core)
- ◆ Inductance tuning range: 36 to 46.3(nH)
- ◆ Core material: Aluminum
- ◆ SRF: 940 MHz
- ◆ Operating temperature: -40 ~+125
- ◆ Rotation times(min): 100


**Features**

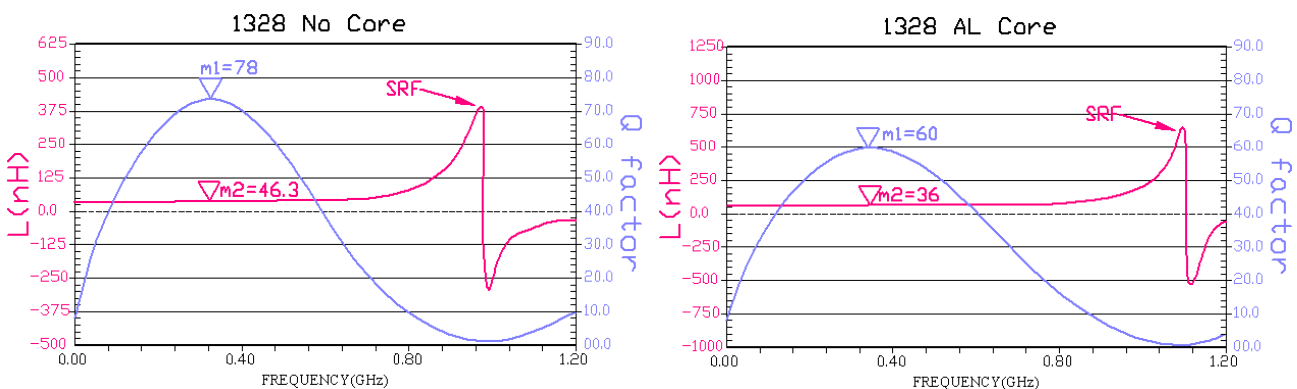
- SMD package, able to be mounted or soldered on the PCB.
- High temperature resistant, operating temperature: -40 ~+125 .
- Keep excellent & stable performance at high temperature.
- Operated in RF frequency band.
- High Q value.
- Good air tightness to realize high Q value.
- Small size: 4.2 × 4.2 × 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

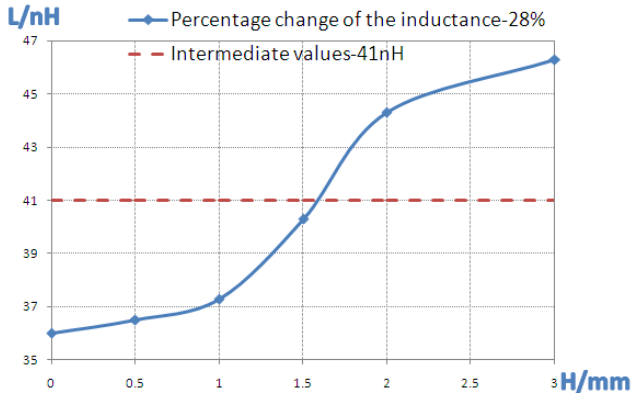


Part No.	No core		At L max		At L min		Freq (MHz)	No core SRF min(MHz)	Irms (A)
	L(nH)	Q min	L(nH)	Q min	L(nH)	Q min			
1328	46.3	78	46.3	78	36	60	480	940	1.9

**Notes:**

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

### Inductance VS The height of the core rotation

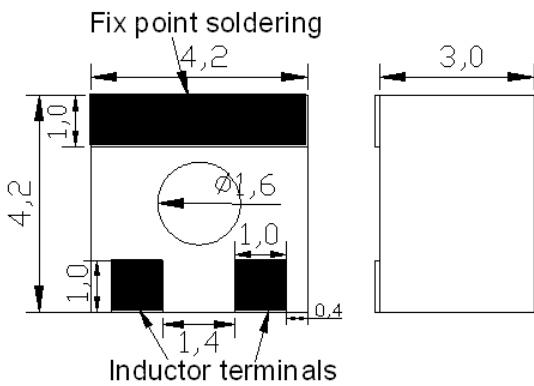


### Notes

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

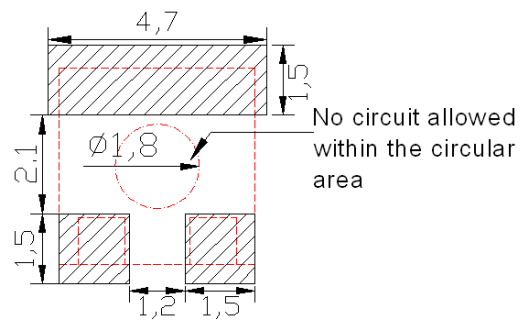
### Package Outlines

All dimensions shown in mm unless stated otherwise



### Recommended Layout

All dimensions shown in mm unless stated otherwise



### Tape and Reel Drawing

