



低频接收3D天线--- 12.6x12.6x3.25

SMD 3D Coil 12.6x12.6x3.25 mm



Features

Small solution of 3D coil designed to achieve a very good electrical performance in the smallest dimensions.

Applications:

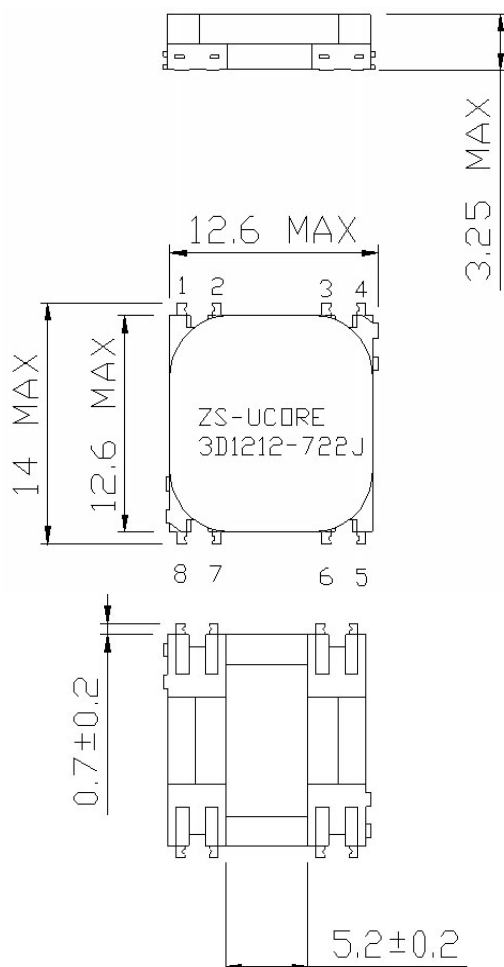
- Automotive.
- Passive keyless entry and Keyless Go Systems.
- RTPMS with wake up functions.
- Industrial logistics and control.
- Access control.
- Tracking devices.



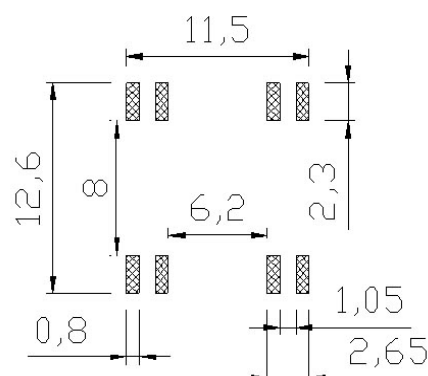
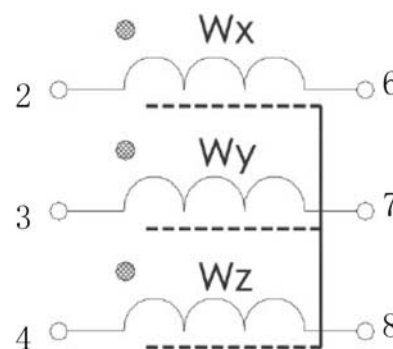
Keyless entry systems is a typical application for this coil, the isotropy is often sought in RF antenna. In transponder applications, this feature has been achieved by the combination of 3 single coils oriented in the 3 space axis with the aim of covering the maximum space orientation.

This small size 3D coil offers the possibility of assembly in single component 3 coils with full functionality, thus reducing cost, saving PCB space and increasing the circuit reliability.

Dimensions



All dimensions in mm





低频接收3D天线--- 12.6x12.6x3.25

SMD 3D Coil 12.6x12.6x3.25 mm

Electrical specifications

Part Number	Inductance	Q	SRF (KHz)	SRF (KHz)	DCR (W)	DCR (W)
产品料号	X,Y,Z轴 (mH)	X,Y,Z轴 (Typ.)	X,Y轴 (Typ.)	Z轴(Typ.)	X,Y轴(max)	Z轴(max)
	电感值 (L)	品质因素	共振频率	共振频率	直流阻抗	直流阻抗
3D1212-242J	2.38	23	500	1000	75	95
3D1212-252J	2.47	23	500	800	75	95
3D1212-352J	3.45	26	450	800	85	120
3D1212-402J	4.05	26	400	800	98	138
3D1212-472J	4.77	26	380	800	117	170
3D1212-492J	4.91	26	350	750	120	175
3D1212-722J	7.2	30	330	750	150	210
3D1212-103J	10	25	250	550	165	280

※Test Freq. : 125KHz / 1V.

※Operating Temp. : -40°C ~ +85°C

※ Sensitivity (S0) measured with Helmholtz Coils H=8.36 A/m@125kHz.

※ SRF: Self Resonant Frequency of the coil.

※ Wx/Wy/Wz means winding coil of X, Y and Z axis.

※ f20/f125/f134.2 means resonant frequency of 20kHz, 125kHz and 134.2kHz.

※ Test under the condition of relative humidity of 85%

※ Any other inductance value at LF or tighter tolerances can be provided. Also can be supplied different inductance value in the different winding axis. Please contact our salesperson for any inquiries.

Soldering heat resistance:

260°C / 10 sec

Operating temperature range:

-40°C to + 125°C

Packaging unit (parts/reel):

1000