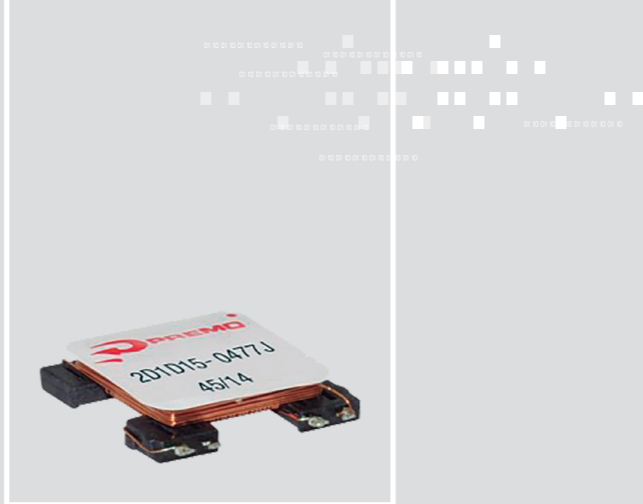


# 2D1D15

## SMD 3D Coil

17.5x16.0x4.0mm MAX

NFC ANTENNAS



### FEATURES

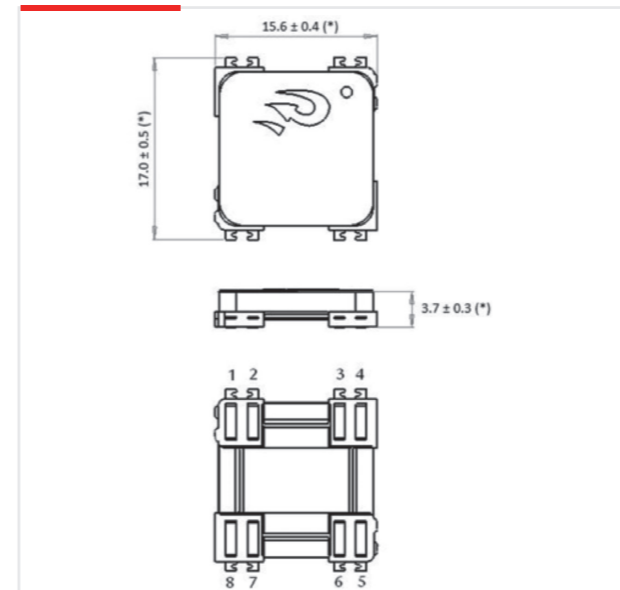
The **2D1D15** integrates in the same component **NFC and LF performance**. Since in the last few years, communication technology by Near Field Communication (NFC) has experienced a lot of improvements and still Low Frequency (LF) is widely used for security communications, this component offers the possibility to work with both communication ranges. A combination of 2 single coils in LF and one single coil in NFC oriented in the 3 space axis offers the possibility of mounting a single component instead of three and working with the two frequency ranges.

## 01 CHARACTERISTICS

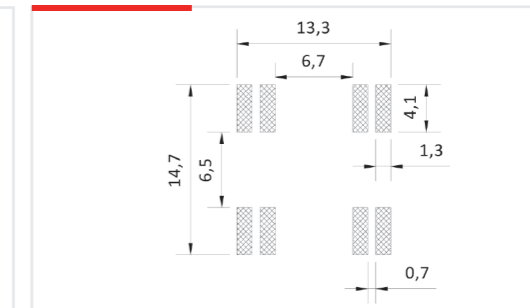
- › Size: 17.5 x 16.0 x 4.0mm MAX
- › High drop test resistance (up to 500 times 1 m) due to a maximized pin area.
- › High stability in temperature (-40°C to +85°C).
- › With cover cap or labelled.
- › Taped & Reeled.
- › Designed for 125KHz,134KHz and 13.56 MHz.

## 02 SPECIFICATIONS

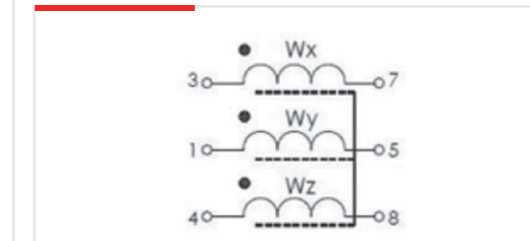
### DIMENSIONS (mm)



### RECOMMENDED PAD-LAYOUT



### ELECTRICAL DIAGRAM



### ELECTRICAL SPECIFICATIONS | 2D1D15-0477J

L x,y (mH)	4.77
Lz (uH)	6
Qx,y Min	23
Qz Min	15
fx (kHz)	125
Fz (MHz)	13.56
SRFx,y (kHz) Min	250
SRFz (kHz) Min	25
DCRx,y (Ω) Max	96
DCRz (Ω) Max	0.75
Sensitivity x,y (mVpp/App/m) Min	77

Length (mm)	16.0
Width (mm)	17.5
Height (mm)	4.0

This chart is a reference guide for the most common required values at working frequency of 125 kHz. Any other inductance value at LF or tighter tolerances can be provided. Also can be supplied different inductance values in the different winding axis. Please contact our sales department for any inquiry. **Sensitivity measured with Helmholtz coils H=8.36 App/m @125 kHz. Contact us for measurement specification.** SRF: Self Resonant Frequency of the coil.