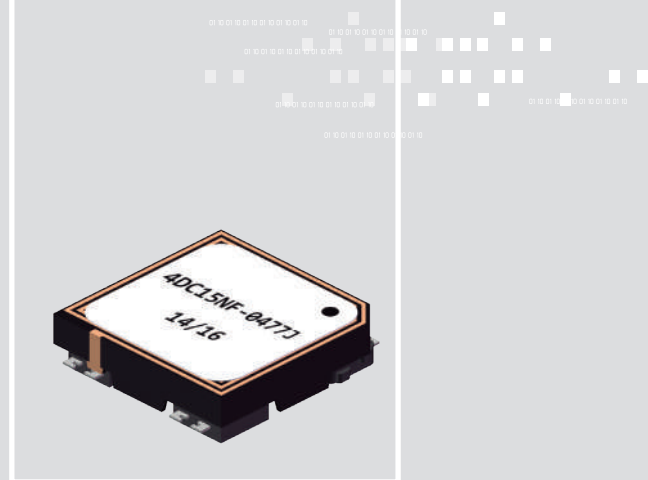


## 4DC15NF

4D-COIL 125kHz-PKE, 13,56MHz-NFC  
NFC ANTENNAS



## FEATURES

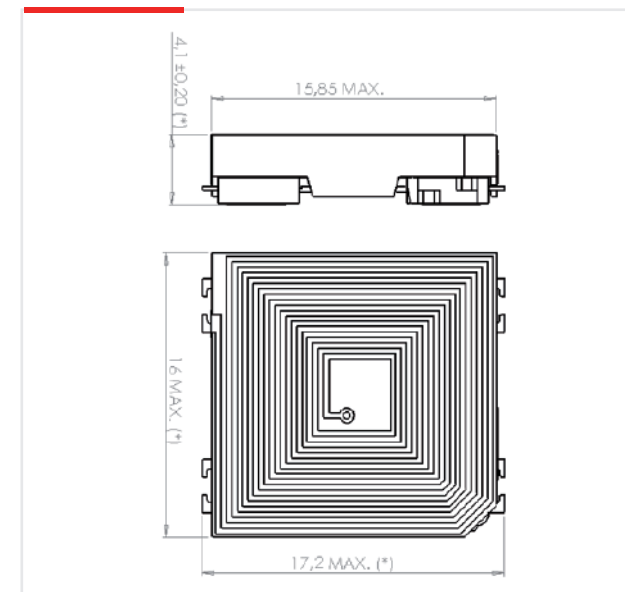
The new 4Dcoil Series, provides three orthogonal coils for working at low frequency (standard 125 kHz) and an additional coil for working at high frequency (standard 13,56 MHz). With very stable properties in a wide range of temperature (-40°C to +85°C). **Its efficient design of low frequency coils has very high sensitivity and excellent isotropy.** The inductance value is 4.77mH @125kHz (other values under request). Inductance value of high frequency (NFC) antenna is 0.85uH @13.56MHz.

## 01 CHARACTERISTICS

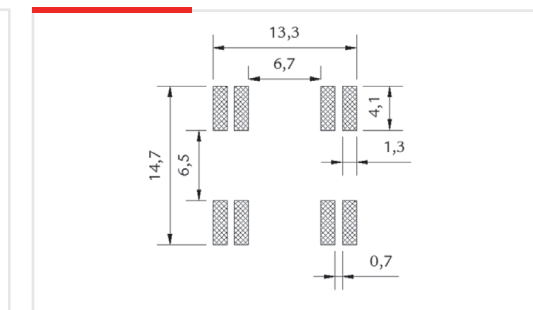
- › This component is functional at 125kHz and 13.56MHz (NFC applications)
- › Can be used in RFID applications with ISO15693 (vicinity: I-Code), ISO 14443A&B (proximity: MIFARE) interface, ISO 18092 and Felica.
- › Good mechanical performance
- › Suitable for Pick&Place SMD assembly- Taped & Reeled.
- › Designed for 13,56MHz.

## 02 SPECIFICATIONS

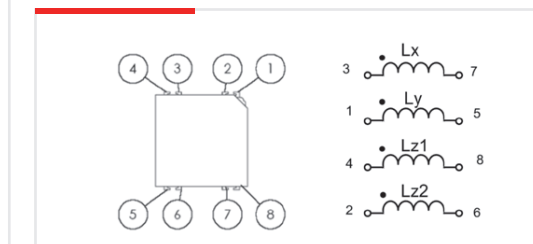
## DIMENSIONS (mm)



## RECOMMENDED PAD-LAYOUT



## ELECTRICAL DIAGRAM



## ELECTRICAL SPECIFICATIONS | 4DC15NF-0477J

L x,y,z (μH)	4,77 ± 5%
Lz2 (μH)	0,85 ± 10%
Q min x,y,z1	24
Q min z2	4,5
SRFx,y (kHz) Min	250
SRFz1 (kHz) Min	350
SRFz2 (MHz) Min	25
DCRxy (mΩ) Max	99
DCRz1 (mΩ) Max	132
DCRz2 (mΩ) Max	4,95

This specification chart is a reference guide at working frequencies of 125 kHz. and 13.56 MHz.