

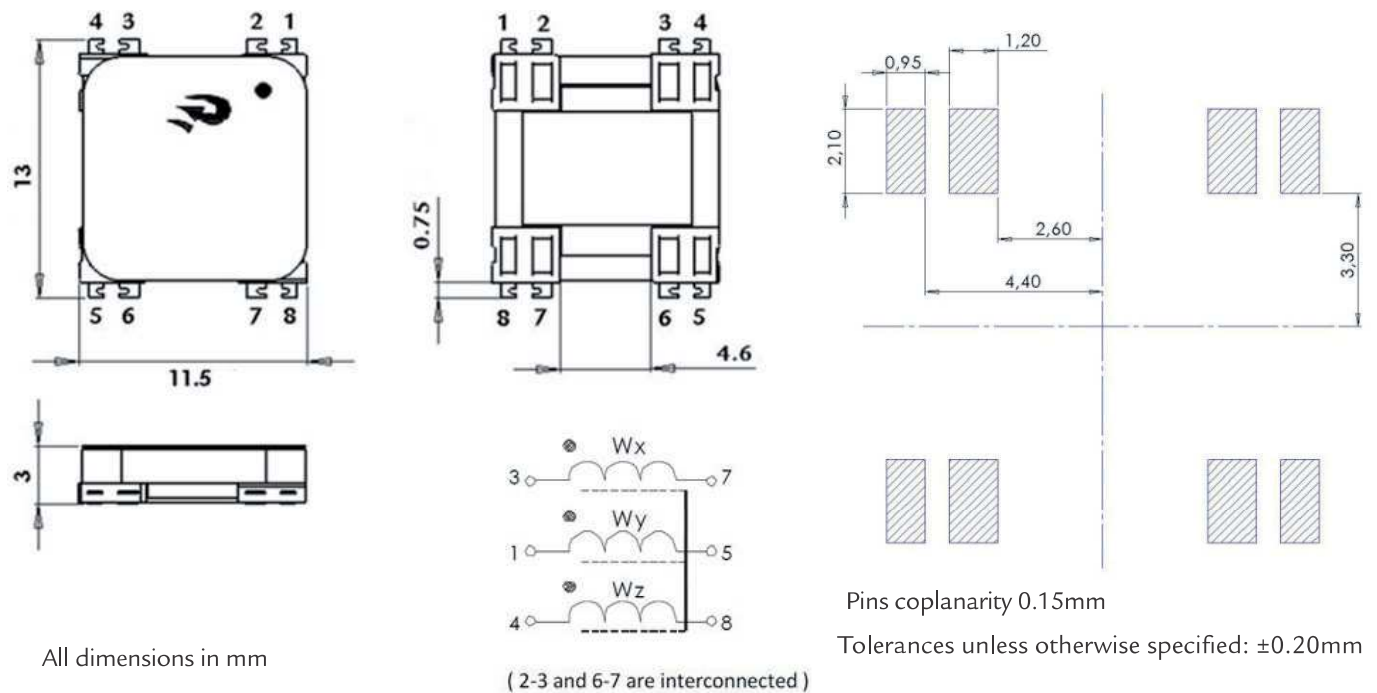
# 3DC11LP

SMD 3D Coil 13x11.6x3.15 mm MAX (2.38 mH – 7.2 mH) Low profile

## Characteristics

- Offers 3 coils, oriented in the 3 space axes, assembled in a single component with full functionality.
- Suitable for automotive applications (Keyless Entry Systems, RTPMS), etc.
- Very good electrical performance in the smallest dimensions.
- High stability in temperature (-40°C to +85°C).
- High sensitivity values.
- The inductivity in each axis can be customized to achieve customer requirements.
- Designs at lower frequencies, 20 kHz or 40 kHz, show a very good electrical performance as well.

## Dimensions and recommended pad layout



## Electrical specifications

| P/N           | L <sub>x,y,z</sub><br>(mH) | Q <sub>x,y,z</sub><br>Min | Freq<br>(KHz) | Cres<br>(pF) | SRFx,y<br>(kHz)<br>Min | SRFz<br>(kHz)<br>Min | DCRx,y<br>(Ohm)<br>Max | DCRz<br>(Ohm)<br>Max | Sensitivity x,y,z<br>(mV/App/m)<br>Min | Length<br>(mm) | Width<br>(mm) | Height<br>(mm) |
|---------------|----------------------------|---------------------------|---------------|--------------|------------------------|----------------------|------------------------|----------------------|--|----------------|---------------|----------------|
| 3DC11LP-0238J | 2.38                       | 25                        | 125           | 680          | 500                    | 900                  | 50                     | 50                   | 40                                     | 13             | 11,6          | 3,15           |
| 3DC11LP-0247J | 2.47                       | 25                        | 125           | 656          | 500                    | 800                  | 50                     | 50                   | 50                                     | 13             | 11,6          | 3,15           |
| 3DC11LP-0345J | 3.45                       | 29                        | 125           | 470          | 400                    | 800                  | 60                     | 70                   | 55                                     | 13             | 11,6          | 3,15           |
| 3DC11LP-0405J | 4.05                       | 30                        | 125           | 400          | 400                    | 600                  | 67                     | 67                   | 60                                     | 13             | 11,6          | 3,15           |
| 3DC11LP-0477J | 4.77                       | 30                        | 125           | 340          | 370                    | 600                  | 70                     | 96                   | 65                                     | 13             | 11,6          | 3,15           |
| 3DC11LP-0491J | 4.91                       | 32                        | 125           | 330          | 350                    | 600                  | 74                     | 98                   | 65                                     | 13             | 11,6          | 3,15           |
| 3DC11LP-0720J | 7.20                       | 25                        | 125           | 225          | 330                    | 500                  | 84                     | 120                  | 72                                     | 13             | 11,6          | 3,15           |

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.

L and Q factor measured at 125 kHz, 1 Vac.

Sensitivity measured with Helmholtz coils H=8.36 App/m @125 kHz. Contact us for measurement specification.

SRF: Self Resonant Frequency of the coil.