

3DC11F

SMD Foam Label 3D Coil 13x11.6x4.2mm(2.38mH - 7.2mH) Low Profile

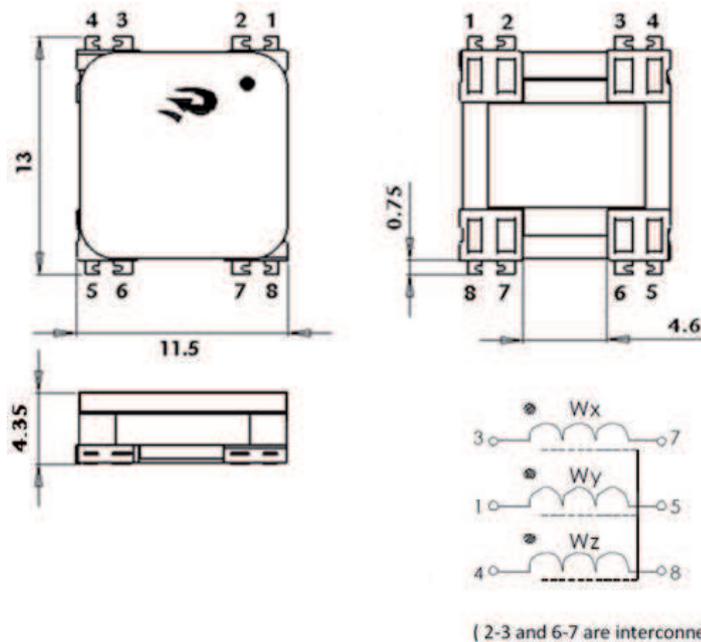
3-Axes Transponder Inductor (3DCoils)

Characteristics

- Evolution of the 3DC11LP series.
- The foam, placed on the top of the part, absorbs better the shocks and, thus, improves the mechanical performance of the piece.
- Very good electrical performance.
- 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



All dimensions in mm
 Tolerances unless otherwise specified: ±0.20mm
 Pins coplanarity 0.15mm

Electrical specifications

| P/N | L x,y,z (mH) | Q x,y,z Min | Fre- quency (kHz) | Cres (pF) | SRF x,y (kHz) Min | SRF z (kHz) Min | DCR x,y (Ω) Max | DCR z (Ω) Max | Sensitivity x,y,z (mVpp/ App/m) Min | Length (mm) | Width (mm) | Height (mm) |
|--------------|--------------------|-------------------|-------------------------|--------------|-------------------------|-----------------------|-----------------------|---------------------|---|----------------|---------------|----------------|
| 3DC11F-0238j | 2.38 | 25 | 125 | 680 | 500 | 900 | 50 | 50 | 40 | 13.0 | 11.6 | 4.4 |
| 3DC11F-0491j | 4.91 | 32 | 125 | 330 | 350 | 600 | 74 | 98 | 65 | 13.0 | 11.6 | 4.5 |
| 3DC11F-0720j | 7.20 | 25 | 125 | 225 | 330 | 500 | 84 | 120 | 72 | 13.0 | 11.6 | 4.5 |

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.