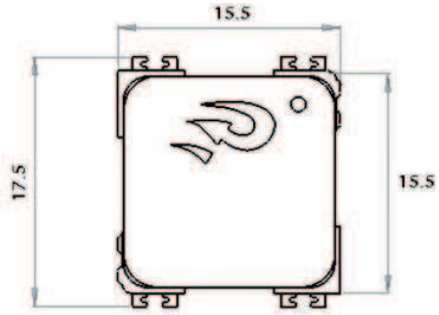
# 3DC15F

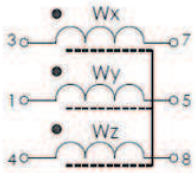
## SMD Foam Label 3D Coil 17.5x15.5x5 mm MAX (2.47 mH – 7.2 mH)

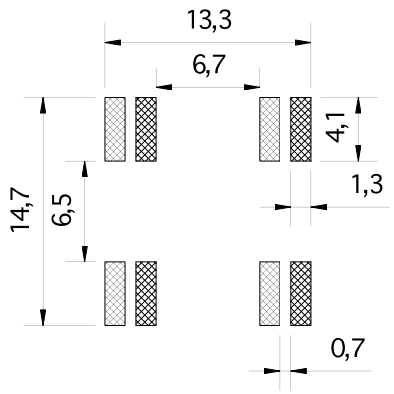
### Characteristics

- Evolution of the 3DC15 series.
- The foam, placed on the top of the part, absorbs better the shocks and, thus, improves the mechanical performance of the piece.
- High drop test resistance (up to 500 times 1m) due to a maximized pin area.
- High stability in temperature (-40°C to +85°C).
- Isotropic version available.
- Designed for 125 kHz and 134 kHz.

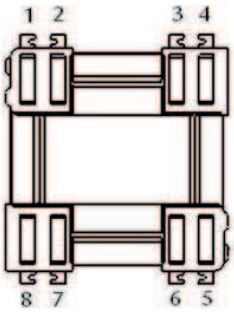

### Dimensions and recommended pad layout








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 | Frequency (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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3DC15F-0247J | 2.47 | 23 | 125 | 656 | 500 | 1000 | 75 | 75 | 55 | 15.5 | 17.5 | 5 |
| 3DC15F-0491J | 4.91 | 27 | 125 | 330 | 350 | 750 | 105 | 140 | 85 | 15.5 | 17.5 | 5 |
| 3DC15F-0720J | 7.20 | 30 | 125 | 225 | 330 | 700 | 120 | 172 | 95 | 15.5 | 17.5 | 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.