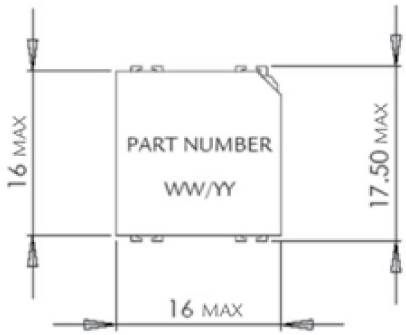
3DC15CAP

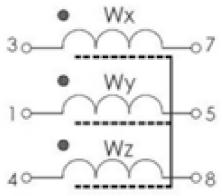
SMD CAP 3D Coil 17.5x16x4.30 mm MAX (2.47 mH – 7.2 mH)

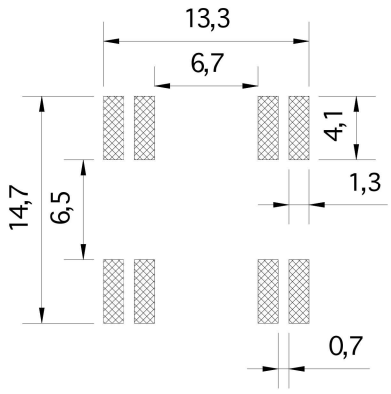
Characteristics

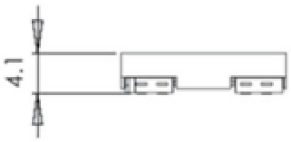
- Evolution of the 3DC15 series.
- The cap provides an additional mechanical protection to the coil, combined with a high performance in temperature.
- Also, the cap allows an easier handling and placing of the part.
- High drop test resistance (up to 500 times 1m) due to a maximized pin area.
- High stability in temperature (-40°C to +85°C).
- Isotropic version available.
- Designed for 125 kHz and 134 kHz.

Dimensions and recommended pad layout





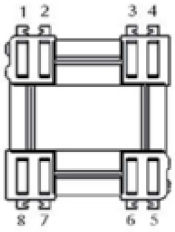




All dimensions in mm

Tolerances unless otherwise specified: ±0.20mm

Pins coplanarity 0.15mm



Electrical specifications

Código	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)
3DC15CAP-0247J	2.47	22	125	656	400	900	75	75	65	16.0	17.5	4.3
3DC15CAP-0491J	4.91	25	125	330	250	550	100	140	70	16.0	17.5	4.3
3DC15CAP-0720J	7.20	20	125	225	250	550	120	230	95	16.0	17.5	4.3

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.