# **3DC11LPCAP**

# SMD CAP 3D Coil Low Profile 13x12.8x3.7mm (2.38mH - 7.2mH)

3-AXIS TRANSPONDER INDUCTOR (3DCOILS<sup>™</sup>)



## **APPLICATIONS**

- > Automotive Passive keyless entry systems.
- > Automotive RTPMS with wake up functions.
- > Industrial logistics and control.
- Access control.
- > Tracking devices.

### **CHARACTERISTICS** 01

- > Evolution of the 3DC11LP series.
- > The cap, made of high quality plastic material, improves the mechanical protection to the coil.
- > Keyless Entry Systems is a typical application for this coil.
- > Very good electrical performance.
- > High stability in temperature (-40°C to +85°C).
- > High sensitivity values.
- > The inductance in each axis can be customized to ssachieve customer requirements.
- > Designs at lower frequencies, 20 kHz or 40 kHz, show a very good electrical performance as well

02 SPECIFICATIONS



### ELECTRICAL SPECIFICATIONS

P/N	L x,y,z (mH)	Q x,y,z Min	Frequency (kHz)	Cres(pF)	SRFx,y (kHz) Min	SRFz (kHz) Min	DCR x,y (Ω) Max	DCR z (Ω) Max
3DC11CAP-0238J	2.38	17	125	680	450	850	60,5	82,5
3DC11CAP-0491J	4.91	15	125	330	300	700	111	150
3DC11CAP-0720J	7.20	15	125	225	250	500	176	209
P/N	Sensitivity x,y,z (mV/A/m) Min		Length (mm)	Width (mm)		Height (mm)		
3DC11CAP-0238J	40		13,0	12.8		3.7		
3DC11CAP-0491J		50	13,0	12.8		3.7		
	85							
3DC11CAP-0720J	8	85	13,0	12.8		3.7		

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.

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GENERAL CATALOGUE 2018 PREMO