3DC11-DR
SMD 3D Coil Drumcore
13.2 x 11.8 x 3.5mm (4.91-7.2mH)
3-AXIS TRANSPONDER INDUCTOR (3DCoils™)

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

CHARACTERISTICS
- 3 coils in one component, oriented in the 3 space axes with full functionality.
- High sensitivity (>90mV/A/m [X,Y]; >40mV/A/m [Z]).
- Available with different inductance values.
- Very stable electrical properties in full operational operative range (-40°C → +125°C).
- Max. Operating Temperature: +125°C.
- Suitable for Pick&Place SMD assembly.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>P/N</th>
<th>L (mH)</th>
<th>Q min</th>
<th>Qx,y</th>
<th>Qz</th>
<th>DCR (Ω)</th>
<th>Sensitivity x,y (mV/A/m) Min</th>
<th>Sensitivity z (mV/A/m) Min</th>
<th>Dimensions (mm) Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>3DC11-DR-0491J</td>
<td>4.91±5%</td>
<td>22</td>
<td>30</td>
<td>300</td>
<td>500</td>
<td>110</td>
<td>100</td>
<td>50</td>
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<tr>
<td>3DC11-DR-0720J</td>
<td>7.2±5%</td>
<td>25</td>
<td>35</td>
<td>300</td>
<td>500</td>
<td>140</td>
<td>95</td>
<td>32</td>
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</tbody>
</table>

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 axes. 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.

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

ELECTRICAL DIAGRAM

DIMENSIONS AND RECOMMENDED PAD-LAYOUT (mm)

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ELECTRICAL SPECIFICATIONS | 125kHz

PINS COPLANARITY 0.1 MM MAX

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