Electromagnetic motion tracking system works by using one low frequency isotropic magnetic field generator and one or several isotropic 3D magnetic sensors. 3D coils have huge flexibility in terms of customization and setup to fulfill the application needs or environment changes. Performance of this coil makes it suitable in several applications where low profile is a must.

SMD 3D Coil
11.6x11.6x3.2mm
Rx EM MOTION TRACKING SENSORS

**FEATURES**
- Size 11.6x11.6x3.2 mm
- SMD solution
- Suitable for AOI
- Inductance range: 2-20 mH
- Labelled to allow PnP operations
- Best size/sensitivity ratio. Sensitivity over 20 mV/A/m @20 kHz.

### CHARACTERISTICS

<table>
<thead>
<tr>
<th>Code</th>
<th>Lx,y,z nom</th>
<th>Qx,y,z Min</th>
<th>f (kHz)</th>
<th>SRF x,y,z</th>
<th>DCRx (Ohm)</th>
<th>DCRy (Ohm)</th>
<th>DCRz (Ohm)</th>
<th>Sensit. x,y,z (mV/A/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3DV11AOI-A-S0600J</td>
<td>6 / 6 / 6.9</td>
<td>5.0/5.0/4.0</td>
<td>20</td>
<td>300</td>
<td>500</td>
<td>113</td>
<td>130</td>
<td>180</td>
</tr>
<tr>
<td>3DV11AOI-A-2000J</td>
<td>20 / 22 / 15</td>
<td>5.0/5.0/5.0</td>
<td>20</td>
<td>120</td>
<td>350</td>
<td>500</td>
<td>550</td>
<td>400</td>
</tr>
<tr>
<td>3DV11AOI-A-3000J</td>
<td>30 / 30 / 25</td>
<td>6.0/5.5/5.0</td>
<td>20</td>
<td>100</td>
<td>200</td>
<td>600</td>
<td>700</td>
<td>680</td>
</tr>
</tbody>
</table>

(1) Measured at 20kHz, 1Vac
(1) Ask for sensitivity test set up and recommendations

### DIMENSIONS (mm)

**DIMENSIONS**

**RECOMMENDED PAD-LAYOUT**

**ELECTRICAL DIAGRAM**

**ELECTRICAL SPECIFICATIONS**

- Pins coplanarity 0.1 mm