### FEATURES
Three-axis magnetic sensor for magnetic tracking sensor systems. Very good performance/sizes ratio, with isotropic response. Used as receiver in VR/AR applications (gaming, etc.) and motion capture applications. Very low latency compared with other motion tracking technologies.

### CHARACTERISTICS
- High axis symmetry (X,Y,Z), repeatability (very good isotropy) and accuracy (up to 1% tolerances)
- Magnetic Sensitivity: 25 mVpp / App / m @20kHz (High inductance)
- Magnetic Sensitivity: 8.5 mVpp / App / m @20kHz (Low inductance)
- Mechanical Drop & Vibration compliant.
- Mounting method: SMT (Taped & Reeled).
- -20°C to 85°C Temperature Performance.
- Multiple frequencies available (typ 60kHz, 125kHz, 134kHz).
- According to industry and safety standards: UL94-V0.

### DIMENSIONS AND RECOMMENDED PAD-LAYOUT (mm)

<table>
<thead>
<tr>
<th>Code</th>
<th>Lx,y,z nom</th>
<th>Qx,y,z nom</th>
<th>f(kHz)</th>
<th>SRF x (kHz) Min</th>
<th>SRF y (kHz) Min</th>
<th>SRFz (kHz) Min</th>
<th>DCRx (Ohm) Max</th>
<th>DCRy (Ohm) Max</th>
<th>DCRz (Ohm) Max</th>
<th>Sensit. x,y,z (mV/A/m) Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>3DCC10-A-0066</td>
<td>645 / 664 / 610 µH</td>
<td>4.1/4.3/3.4</td>
<td>20</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>21.2</td>
<td>20.5</td>
<td>23.7</td>
<td>7.0</td>
</tr>
<tr>
<td>3DCC10-A-0600</td>
<td>8.0 / 8.0 / 7.3 mH</td>
<td>4.4/4.4/4.0</td>
<td>20</td>
<td>150</td>
<td>120</td>
<td>240</td>
<td>240</td>
<td>240</td>
<td>27.0</td>
<td></td>
</tr>
</tbody>
</table>

This chart is a reference guide for the most common required values at working frequency of 20kHz. Any other inductance value at LF or tighter tolerances can be provided. Please contact our sales department for any inquiry. Sensitivity measured with Helmholtz coils H=11.37 App/m @j0kHz. Contact us for measurement specification.

**SRF**: Self-resonant frequency of the coil.

**DIMENSIONS**

- General Tolerances unless indicated ±0.1mm

**ELECTRICAL DIAGRAM**

- Pins Coplanarity 0.15mm.
- General Tolerances unless indicated ±0.1mm