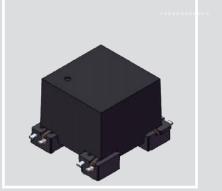
# New

## **3DCC10**

3D Coil Cube receiver sensor for VR magnetic tracking system

17.4x15.2x13.9mm (600-800uH/2-10mH)

**RX EM MOTION TRACKING SENSORS** 





### **FEATURES**

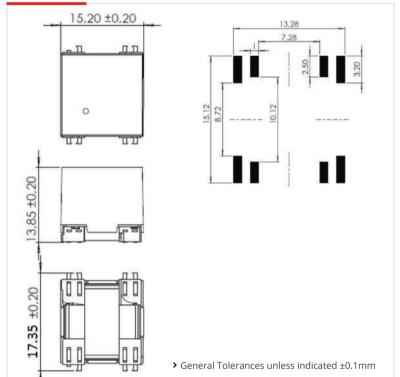
Three axis magnetic sensor formagnetic tracking sensor systems. Very good performance/ size ratio, with isotropic response. Used as receiver in VR/AR applications (gaming, etc.) and motion capture applications. Very low latency compared with other motion tracking technologies.

### **CHARACTERISTICS**

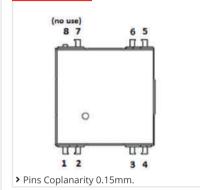
- > High axis symmetry (X,Y,Z), repeatability (very good isotropy) and accuracy (up to 1% tolerances)
- > Magnetic Sensitivity: 25 mVpp / App / m @20kHz. (High inductance)
- > Magnetic Sensitivity: 8.5 mVpp / App / m @20kHz. (Low inductance)
- > Mechanical Drop & Vibration compliant.
- > Mounting method: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

### DIMENSIONS

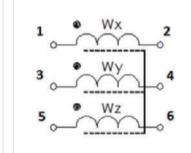
### **DIMENSIONS AND RECOMMENDED PAD-LAYOUT (mm)**



### **PINOUT**



### **ELECTRICAL DIAGRAM**



#### ELECTRICAL SPECIFICATIONS | 20kHz

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

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 @20kHz. Contact us for measurement specification.

SRF: Self-resonant frequency of the coil