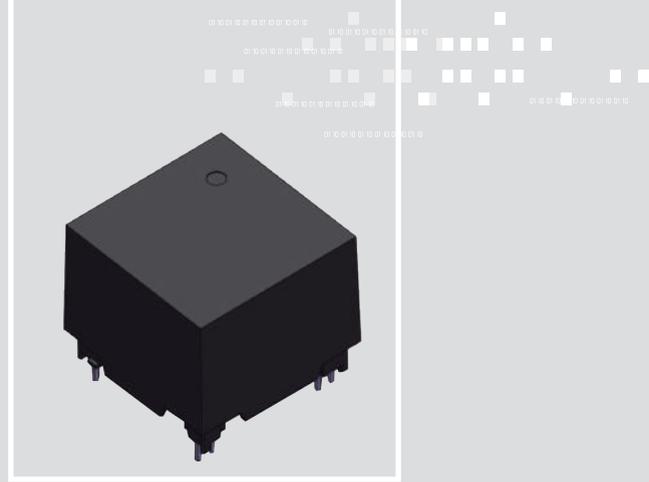


New

## 3D20LW

3D Coil Cube emitter for VR magnetic tracking system  
30.7×30.7×30.2mm (1.0-1.5mH)

Tx EM MOTION TRACKING ANTENNAS



### FEATURES

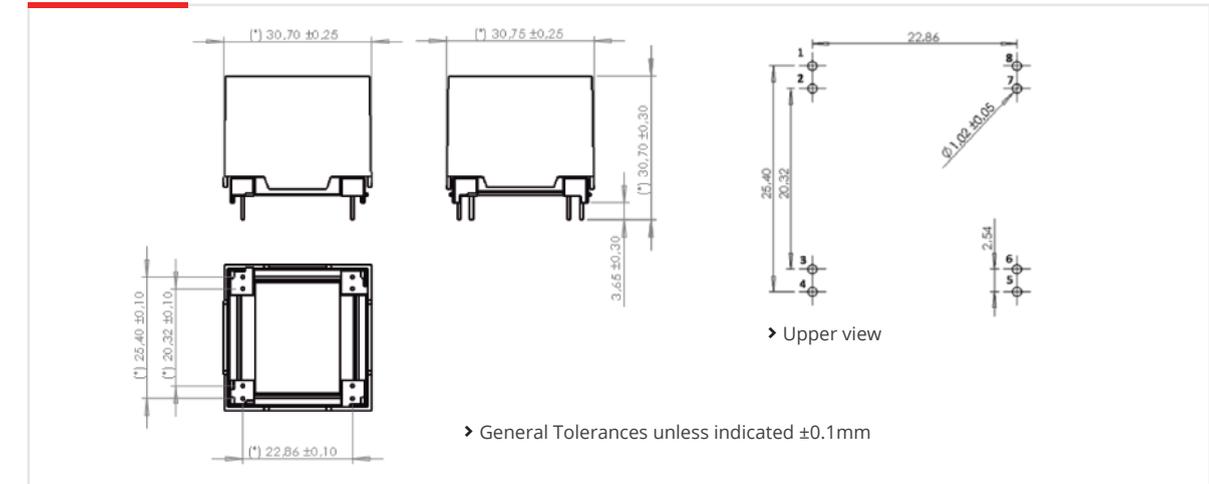
Emitter 3D cubic magnetic antenna for magnetic tracking sensor systems. Light weight version that allow best performance/weight ratios. For VR/AR applications (gaming, etc.) and motion capture applications. Very low latency compared with other motion tracking technologies.

### 01 CHARACTERISTICS

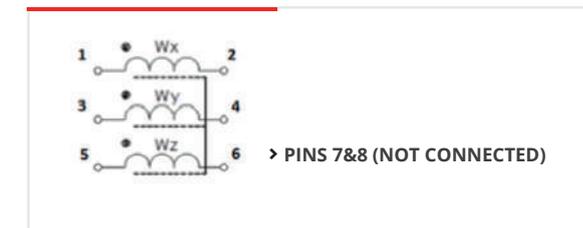
- › Medium size Isotropic 3D Cubic magnetic tracking sensor (20 × 20 mm internal core)
- › Medium range and high sensitivity solution
- › Light Weight (30gr)
- › THT technology
- › Inductance range: 1-1.5mH (high inductance)
- › Dimensions: 30.7 × 30.7 × 30.2 mm
- › Sensitivity (mV/A/m): 30 (min)

### 02 DIMENSIONS

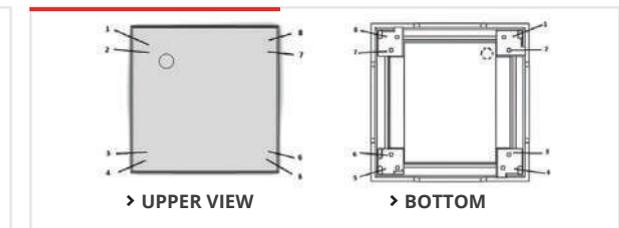
DIMENSIONS AND RECOMMENDED PAD-LAYOUT (mm)



### ELECTRICAL DIAGRAM



### PINS MARKING



### ELECTRICAL SPECIFICATIONS | 20kHz

Code	L <sub>x,y,z</sub> nom	Q <sub>x,y,z</sub> nom	f (kHz)	SRF <sub>x,y,z</sub> (kHz) Min	DCR <sub>x</sub> (Ohm) Max	DCR <sub>y</sub> (Ohm) Max	DCR <sub>z</sub> (Ohm) Max	Magnetic Field x,y,z@1m, 20kHz, 0.25Arms) nom
3DLW20-A-0145J	1.45 / 1.45 / 1.45 mH	22.0/21.0/20.0	20	250	8.5	8.8	9.4	TBD

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