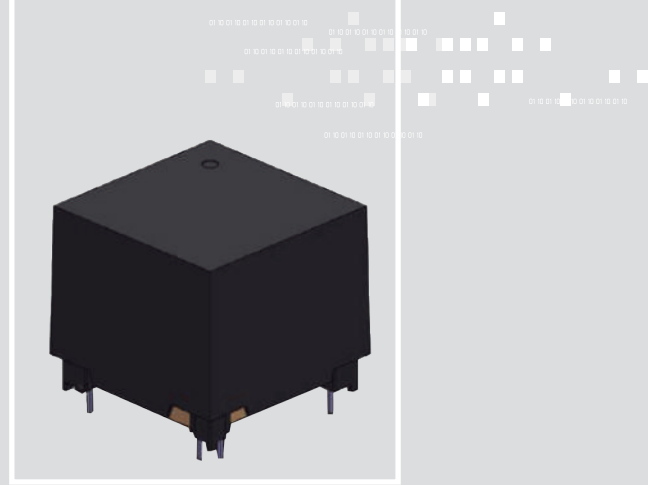


New

3D28LW

3D Coil Cube emitter for VR magnetic tracking system
39.5×39.5×38.6mm (350-600uH/1.0-3.0mH)

Tx EM MOTION TRACKING ANTENNAS



FEATURES

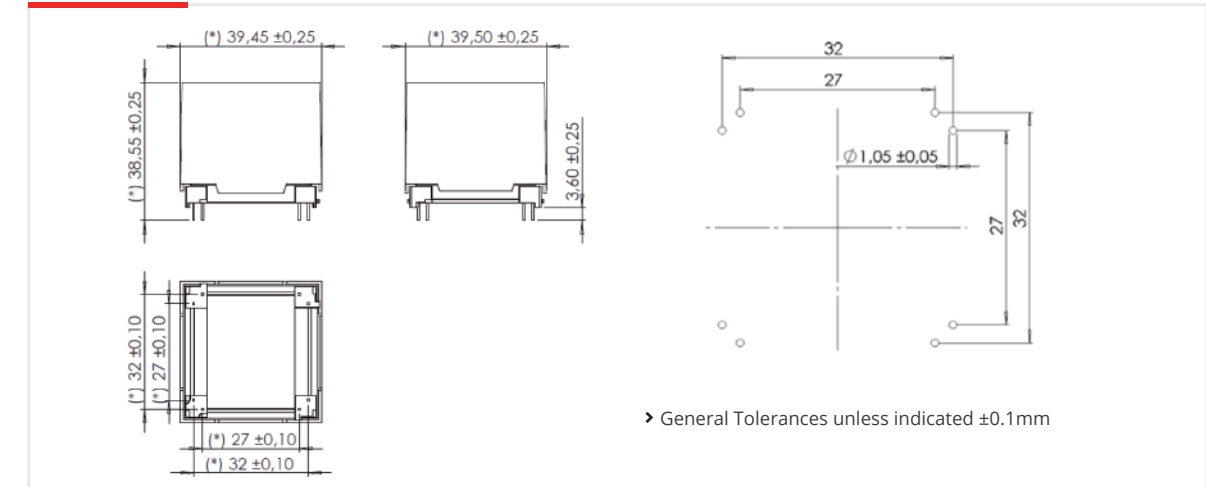
Emitter 3D cubic magnetic antenna for magnetic tracking sensor systems. Light weight version that allow best performance/weight ratios. For VR/AR applications (gaming, etc.) and motion capture applications. Very low latency compared with other motion tracking technologies.

01 CHARACTERISTICS

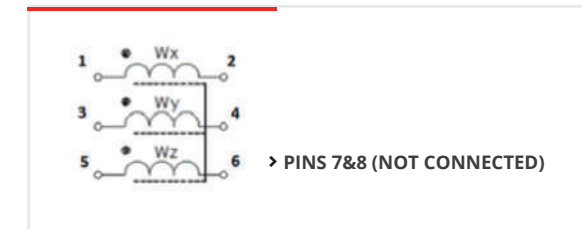
- › Big size Isotropic 3D Cubicmagnetic tracking sensor (28 × 28 mm internal core)
- › Long range and high sensitivity solution
- › THT technology
- › Light Weight (65gr)
- › Inductance range: 1.5-3mH (high inductance)
- › Dimensions: 39.5 × 39.5 × 38.6 mm
- › Sensitivity (mV/A/m): 54 (min)

02 DIMENSIONS

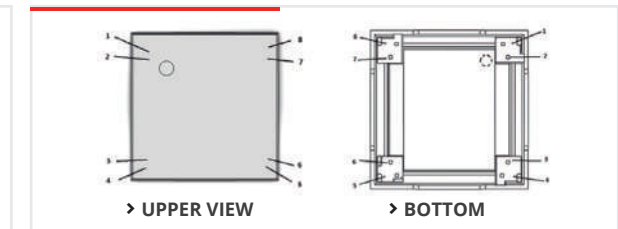
DIMENSIONS AND RECOMMENDED PAD-LAYOUT (mm)



ELECTRICAL DIAGRAM



PINS MARKING



ELECTRICAL SPECIFICATIONS | 20kHz

Code	L _{x,y,z} nom	Q _{x,y,z} nom	f (kHz)	SRF _{x,y,z} (kHz) Min	DCR _x (Ohm) Max	DCR _y (Ohm) Max	DCR _z (Ohm) Max	Magnetic Field _{x,y,z} (@1m, 20kHz, 0.25Arms) nom
3D28LW-A-0200J	2.0 / 2.0 / 2.0 mH	38/36/36	20	200	5.8	6.1	6.4	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