

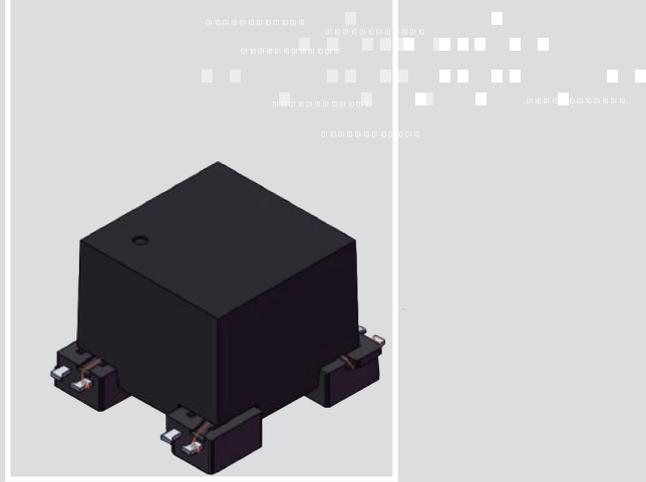
New

3DTX08

3D Coil Cube receiver sensor for VR magnetic tracking system

16.5x14.8x11.8 mm (50-200uH)

Tx EM MOTION TRACKING ANTENNAS



FEATURES

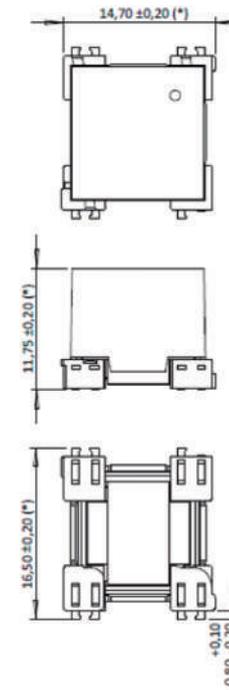
Three axis magnetic antenna for magnetic tracking sensor systems. Very good performance/size ratio, with isotropic response. Used as receiver in VR/AR applications (gaming, etc.) and motion capture applications. Very low latency compared with other motion tracking technologies.

01 CHARACTERISTICS

- › High axis symmetry (X,Y,Z), repeatability (very good isotropy) and accuracy (up to 5% tolerances)
- › Magnetic Sensitivity: 2.6 mVpp / App / m @20kHz.
- › 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-V0
- › High X/Y/Z symmetry and repeatability.

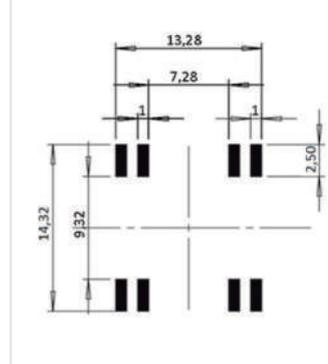
02 DIMENSIONS

DIMENSIONS (mm)

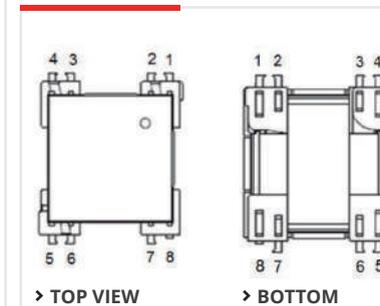


- › General Tolerances unless indicated ±0.1mm
- › Pins Coplanarity 0.15mm

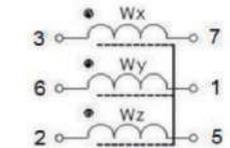
RECOMMENDED PAD LAYOUT



PINS MARKING



ELECTRICAL DIAGRAM



ELECTRICAL SPECIFICATIONS

Code	L _{x,y,z} nom (µH)	Q _{x,y,z} min	f (kHz)	SRF _{x,y,z} (MHz) Min	DCR _x (Ohm) Max	DCR _y (Ohm) Max	DCR _z (Ohm) Max	Sensitivity _{x,y,z} (mV/A/m) Min (*)
3DTX08-A-0060J	100 / 100 / 78	2.2/2.2/1.5	20	1	5.4	5.6	5.6	2.2

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