

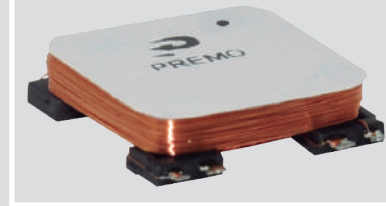
New

3DV11AOI

SMD 3D Coil

11.6x11.6x3.2mm

Rx EM MOTION TRACKING SENSORS



FEATURES

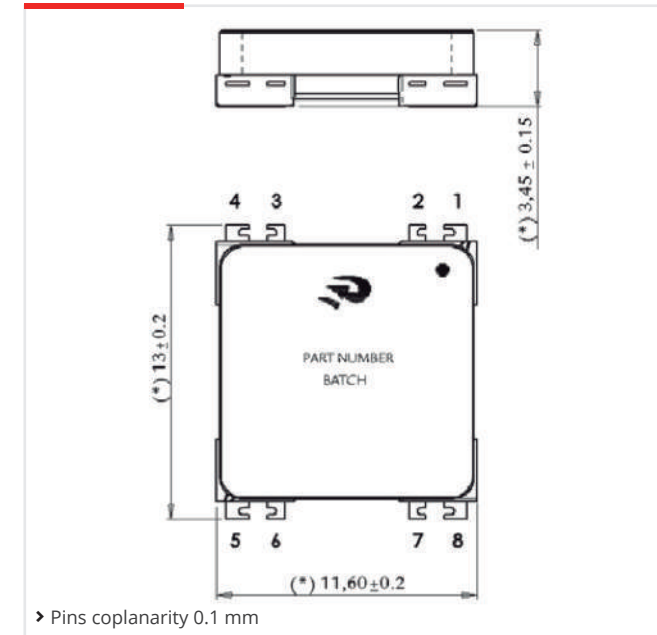
Electromagnetic motion tracking system Works by using one low frequency isotropic magnetic field generator and one or several isotropic 3D magnetic sensors. 3D coils have huge flexibility in terms of customization and setup to fulfill the application needs or environment changes. Performance of this coil makes it suitable in several applications where low profile is a must.

01 CHARACTERISTICS

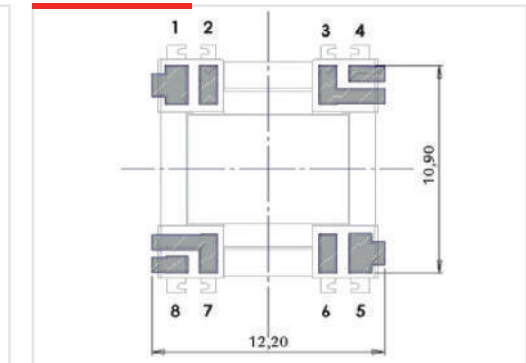
- › Size 11.6x11.6x3.2 mm
- › SMD solution
- › Suitable for AOI
- › Inductance range: 2-20 mH
- › Labelled to allow P&P operations
- › Best size/sensitivity ratio. Sensitivity over 20 mV/A/m @20 kHz.

02 DIMENSIONS

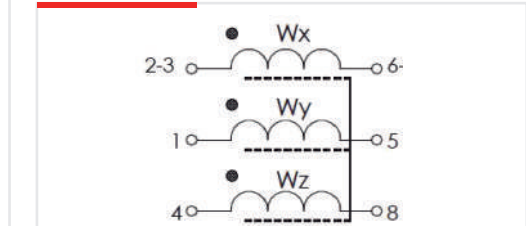
DIMENSIONS (mm)



RECOMMENDED PAD-LAYOUT



ELECTRICAL DIAGRAM



ELECTRICAL SPECIFICATIONS

Code	L _{x,y,z} nom ⁽¹⁾ mH	Q _{x,y,z} Min ⁽¹⁾	f (kHz)	SRF _{x,y} (kHz) Min	SRF _z (kHz) Min	DCR _x (Ohm) Max	DCR _y (Ohm) Max	DCR _z (Ohm) Max	Sensit. x,y,z (mV/A/m) Min ^(*)
3DV11AOI-A-S0600J	6 / 6 / 6.9	5.0/5.0/4.0	20	300	500	113	130	180	11
3DV11AOI-A-2000J	20 / 22 / 15	5.0/5.0/5.0	20	120	350	500	550	400	20XY / 15Z
3DV11AOI-A-3000J	30 / 30 / 25	6.0/5.5/5.0	20	100	200	600	700	680	27XY / 23Z

› (1) Measured at 20kHz, 1Vac

› (*) Ask for sensitivity test set up and recommendations