New

3DC14EM-ULP

SMD 3D Coil Ultra-Low-Profile 14x12x1.65mm (2.38-4.77mH)

3-AXIS TRANSPONDER INDUCTOR (3DCOILS™)

APPLICATIONS

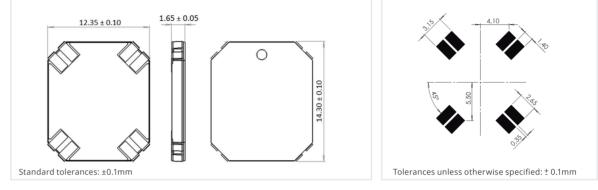
- Smartphones
- Automotive
- > Acces Control with low profles devices
- > Access control in mobile devices.
- > Electro Magnetic Motion Tracking using Smartphones as handles.
- > EM Tracking of Smart Phones

01 CHARACTERISTICS

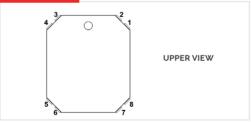
- > 3 coils in one component, oriented in the 3 space axes with full functionality
- > Ultra-Low profile. Best in market. Suitable for Smartphone.
- > Allows Automatic Optical Inspection
- > High sensitivity (>80mV/A/m)
- > Available with different inductance values
- → Very stable electrical properties in full operational operative range (-40°C \rightarrow +85°C)
- > Suitable for Pick&Place SMD assembly



DIMENSIONS (mm)



PINS MARKING



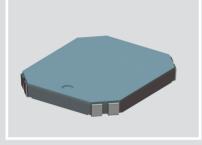
ELECTRICAL SPECIFICATIONS

CODE	Lx (mH)	L,y (mH)	Lz (mH)	Qx,y min	Qz min	SRFx,y (kHz) min	SRFz (kHz) min	DCR x,y (Ω) Max	DCRz (Ω) Max	Sensitivity x,y,z (mVpp/ App/m) min	Dimensions (mm) Max
3DC14EM-ULP-0238J	2.38 (1)	2.38 (1)	7.2 (1)	15	20	350	900	84	172	50	14.4 x 12.2 x 1.70
3DC14EM-ULP-0477J	4.77 (1)	6.30 (1)	10.5 (1)	14.8	25	250	600	198	264	80	14.4 x 12.2 x 1.70
3DC14EM-ULP-0450J	4.50 (1)	4.50 (1)	7.60 (1)	14.8	25	250	600	150	176	60	14,4 x 12.2 x 1.70

⁽¹⁾ Other tolerances under request. Inductance tolerance ±5%. Please contact PREMO for any inquiry.

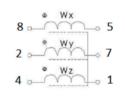
This chart is a reference guide for the most common required values at working frequency of 125kHz.. Please contact our sales department for any inquiry. Sensitivity measured with Helmholtz coils H=8.36 App/m @125kHz. Contact us for measurement specification.

SRF: Self-resonant frequency of the coil



RECOMMENDED PAD-LAYOUT

ELECTRICAL DIAGRAM



 Start of windings is indicated with the dot

