

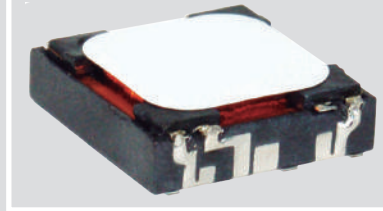
New

3DC12S

SMD 3D Coil Cap Adaptor

12.5x13.5.x3.6mm (2.36-7.2mH)

3-AXIS TRANSPONDER INDUCTOR (3DCOILS™)



FEATURES

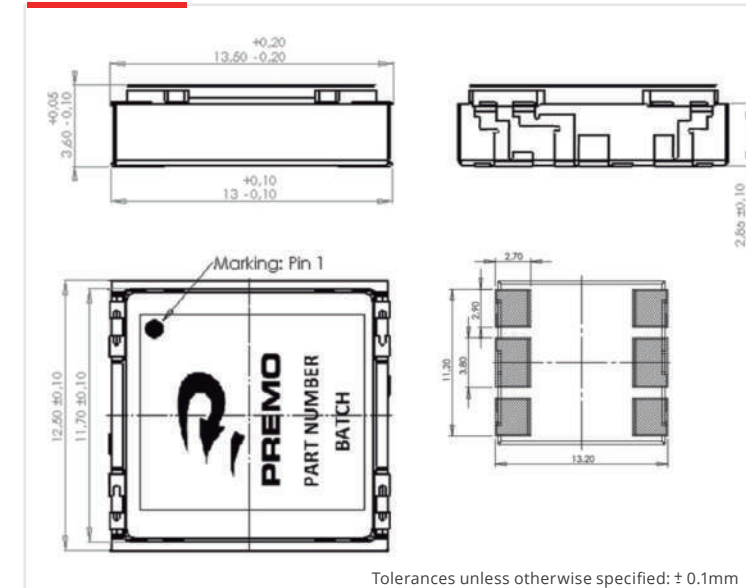
Three axis transponder suitable for Surface Mountable according market standards. Very good electrical performance and stability in temperature. A very good solution for Keyless Go and Keyless entry systems.

01 CHARACTERISTICS

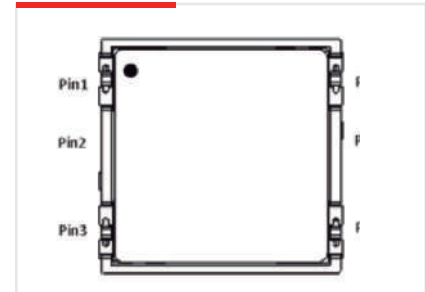
- › 3 coils in one component, oriented in the 3 space axes with full functionality
- › Allows Automatic Optical Inspection
- › High sensitivity (75mV/A/m)
- › Available with different inductance values
- › Very stable electrical properties in full operational operative range (-40°C +85°C)
- › Max. Operating Temperature: +85°C
- › Suitable for Pick&Place SMD assembly
- › Options with protective foam against shocks also available

02 SPECIFICATIONS

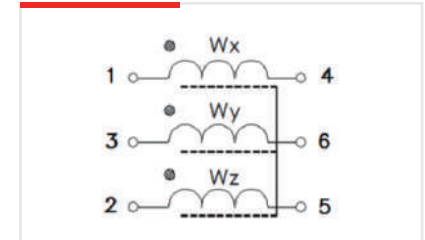
DIMENSIONS AND RECOMMENDED PAD-LAYOUT (mm)



PINOUT



ELECTRICAL DIAGRAM



ELECTRICAL SPECIFICATIONS | 125KHz

Code	L _{x,y,z} (mH) nom	Q _{x,y,z} nom	f(kHz) (KHz)	SRF _{x,y} (KHz) Min	SRF _z (KHz) Min	DCR _x (Ohm) Max	DCR _y (Ohm) Max	DCR _z (Ohm) Max	Sensitivity x,y,z (mV/A/m) Min (*)
3DC12S-0236J	2.36/2.36/3.4 ±5%	23/20/18	125	450	500	58	66	160	42
3DC12S-C-0236J	2.36/2.36/3.4 ±5%	23/20/18	134	450	500	58	66	160	42
3DC12S-0470J	4.7/4.7/7.2 ±5%	34/28/18	125	400	440	102	115	253	60
3DC12S-C-0470J	4.7/4.7/7.2 ±5%	34/28/18	134	400	440	102	115	253	60
3DC12S-0675J	6.75/6.75/6.75 ±5%	33/27/19	125	400	460	123	139	245	72
3DC12-0720J	7.2/7.2/7.2 ±5%	33/27/18	125	400	420	138	158	288	75
3DC12S-0720J	7.2/7.2/9.0 ±5%	33/33/19	125	400	380	138	158	324	75
3DC12-C-0720J	7.2/7.2/7.2 ±5%	33/27/18	134	400	420	138	158	288	75