

3DC11LP-AOI

SMD 3D11 Coil Low Profile AOI 13X11.6X3.45 mm

Characteristics

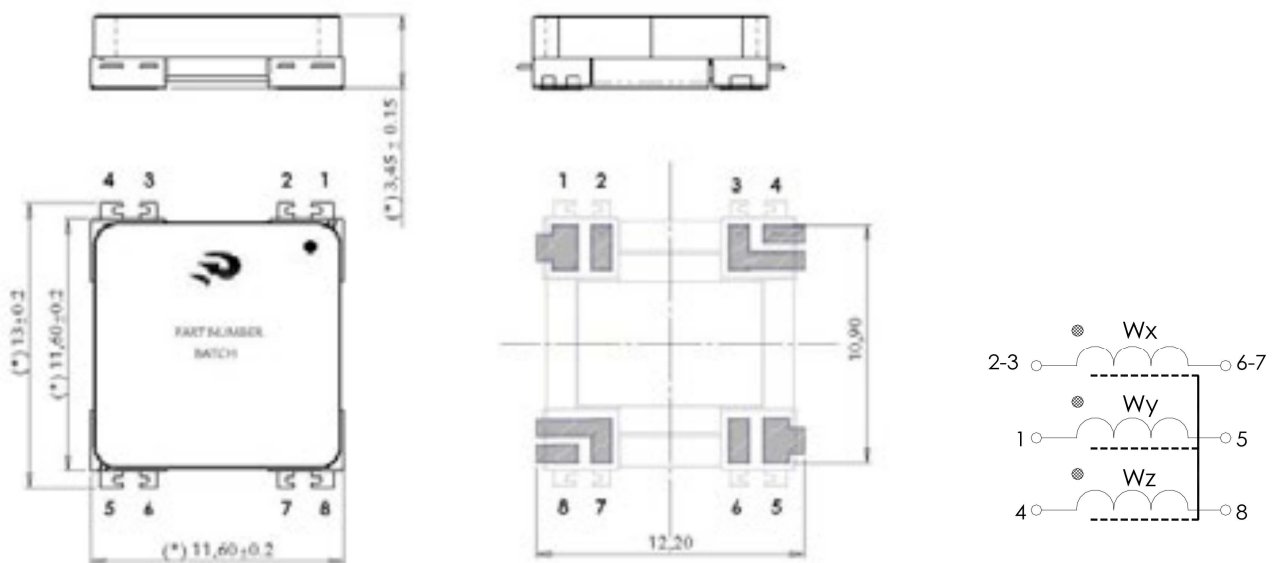
AOI version for the 3DC11LP with the same electrical and mechanical characteristics:

- Offers 3 coils, oriented in the 3 space axes, assembled in a single component with full functionality.
- Suitable for automotive applications (Keyless Entry Systems RTPMES), etc
- Very good electrical performance in the smallest dimensions.
- High stability in temperature (-40 °C to +85 °C).
- High sensitivity values.
- The inductivity in each axis can be customized to achieve customer requirements.
- Designs at lower frequencies, 20 kHz or 40 kHz, show a very good electrical performance as well.
- Allows the Automatic Optical Inspection in customers reflow process since provides lateral meniscus in all soldering points.



3-Axes Transponder Inductor (3DCoils)

Dimensions and recommended pad layout



All dimensions in mm

Pins coplanarity 0.10mm General Tolerances unless indicated ± 0.1 mm

Electrical specifications

Code	L _{x,y,z} (mH)	Q _{x,y} nom	Q _z nom	f (kHz)	SRF _{x,y} (kHz) Min	SRF _z (kHz) Min	DCR _x (Ohm) Max	DCR _y (Ohm) Max	DCR _z (Ohm) Max	C _{pxy} (pF) Max	C _{pxz} (pF) Max	C _{pyz} (pF) Max	Sensitivity x,y (mV/A/m) Min(*)	Sensitivity z (mV/A/m) Min(*)
3DC11LP-AOI-0238J	2.38	25	19	125	700	750	50	55	83	25	10	10	40	38
3DC11LP-AOI-0477J	4.77	26	24	125	500	650	91	103	122	30	15	15	55	55
3DC11LP-AOI-0720J	7.20	20	20	125	300	450	127	143	220	40	15	15	80	70
3DC11LPAOI-C-0720J	7.20	20	20	134	300	450	127	143	220	40	15	15	80	70
3DC11LPAOI-A-3000J	30	6	6	20	115	200	605	704	539	50	15	15	24	20.5

This chart is a reference guide for the most common required values at working frequency of 125, 134 and 20 kHz. Any other inductance value at LF or tighter tolerances can be provided. Also can be supplied different inductance values in the different winding axis. Please contact our sales department for any inquiry.