
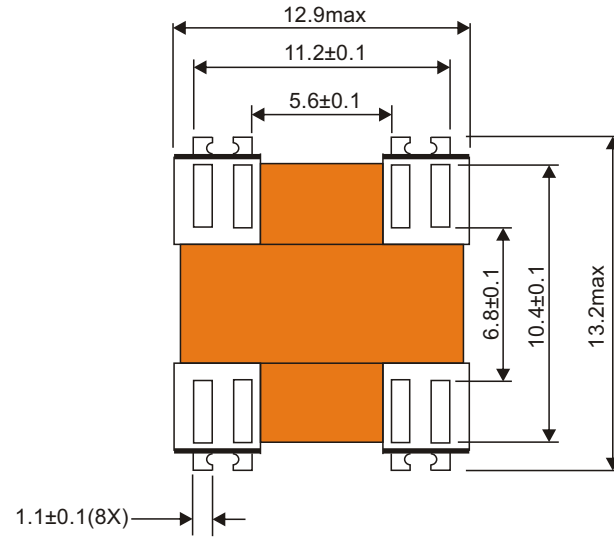
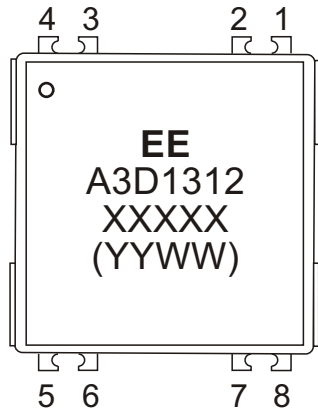


REVISIONS			
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	02/10/17

PART NUMBER		PART DESCRIPTION		TITLE										
A3D1312-XXXXX		RoHS compliant per EU Directive 2011/65/EU		3D Coil 13x12.6x3.6mmMAX, SMD (2.38mH~7.2mH)										
<p align="center"><b><u>WARNING !</u></b></p> <p>ALL SHEETS OF THIS DOCUMENT ARE CONTROLLED DOCUMENTATION AND ARE NOT TO BE RELEASED OUTSIDE OF E&amp;E OR ITS SUB-CONTRACTORS WITHOUT AUTHORIZATION.</p>	<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.</p> <p align="center"><u>TOLERANCE ARE:</u></p> <table border="0"> <tr> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.XXX ± .005</td> <td>.XX ± 0.13</td> <td>X.X ± 0.3</td> </tr> <tr> <td>.XX ± .02</td> <td>.X ± 0.5</td> <td>X. ± 1</td> </tr> </table>	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>	.XXX ± .005	.XX ± 0.13	X.X ± 0.3	.XX ± .02	.X ± 0.5	X. ± 1	APPROVALS	DATE	 E & E Magnetic Products Ltd.	
		<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>										
		.XXX ± .005	.XX ± 0.13	X.X ± 0.3										
		.XX ± .02	.X ± 0.5	X. ± 1										
		DRAWN BY	J.S. CHEN	02/10/17	DRAWING NO./MODEL									
PROJ. ENG	J.J. LI	02/10/17	A3D1312-XXXXX											
APPROVED BY	J.J. LI	02/10/17	REV											
Q.A.	D. LUO	02/10/17	01											
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## MECHANICAL OUTLINE

1. Dimensions are specified in mm.
2. Unless otherwise specified, all tolerances are  $\pm 0.20\text{mm}$ .
3. Coplanarity: 0.15mm Maximum.
4. Marking "XXXXX" is the inductance code which is described in page 3.



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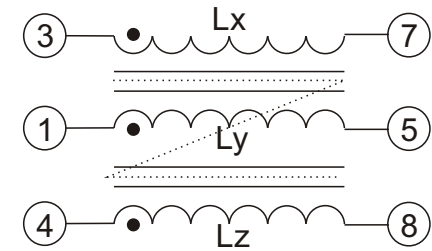
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## SCHEMATIC

### ELECTRICAL SPECIFICATION @25°C:

E&E part number A3D1312-XXXXX	L <sup>5</sup> x,y,z (mH)	Inductance Tolerances (%)	Frequency (KHz)	Q <sup>5</sup> xyz Min	SRF <sup>6</sup> x,y (KHz) Min	SRF <sup>6</sup> z (KHz) Min	DCR x,y (Ω) Typ	DCR z (Ω) Typ	Sensitivity (mVpp/App/m) Min	Marking (YYYY)
A3D1312-0238J	2.38	±5	125	18	450	900	60	85	40	0238J
A3D1312-0247J	2.47	±5	125	23	450	900	70	85	50	0247J
A3D1312-0345J	3.45	±5	125	23	350	800	100	121	55	0345J
A3D1312-0405J	4.05	±5	125	23	300	600	100	138	60	0405J
A3D1312-0477J	4.77	±5	125	25	300	600	100	150	70	0477J
A3D1312-0490J	4.90	±5	125	23	300	600	105	160	70	0490J
A3D1312-0720J	7.20	±5	125	25	250	500	160	210	85	0720J

5. L and Q factor measured at 125KHz, 1Vrms.
6. SRF: Self Resonant Frequency of the coil.
7. Operating temperature range: -40°C to +85°C.
8. This chart is a reference guide for the most common required values at working frequency of 125KHz, 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.



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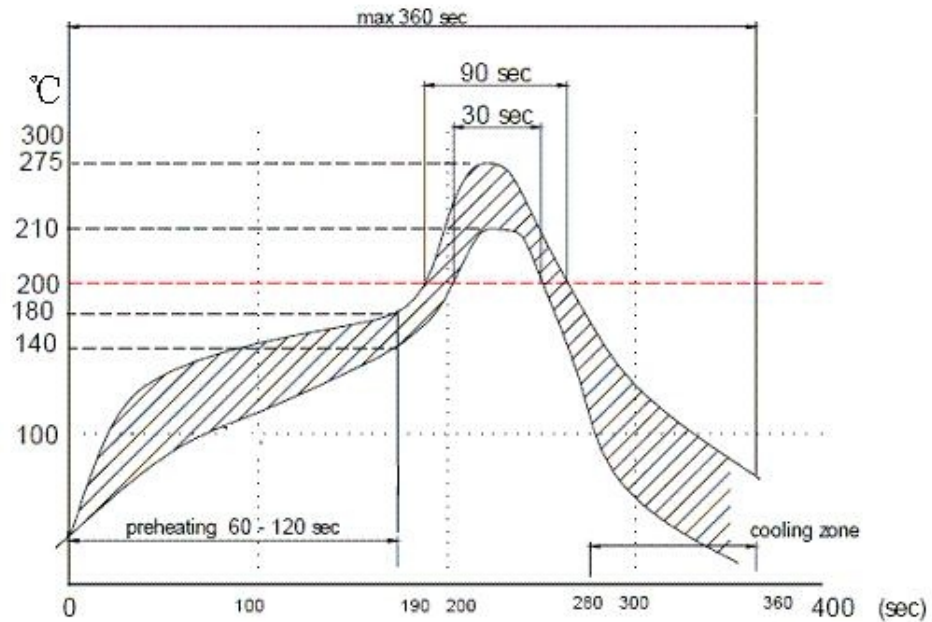
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## 9. Recommended Reflow profile.



The reflow condition recommended above is according to the machine used by our company, big differences will arise as result of the type of machine, reflow conditions, method, etc used



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