
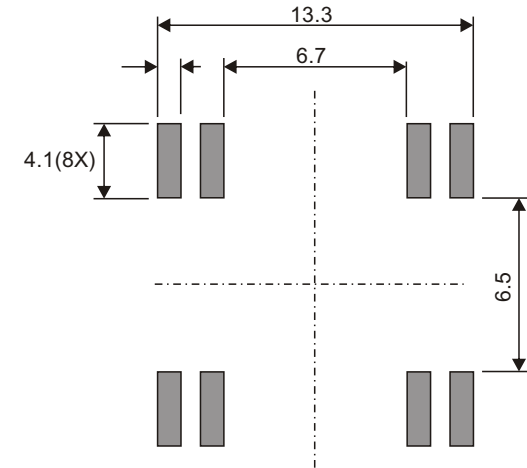
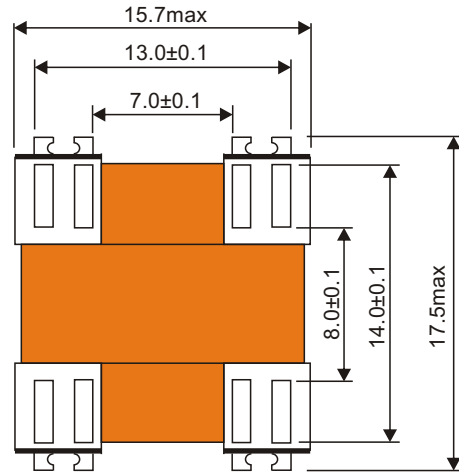
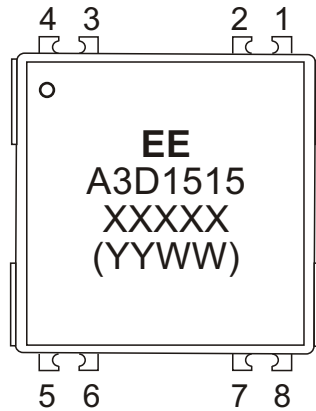
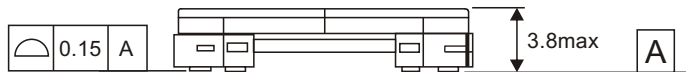


REVISIONS			
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	02/10/17

PART NUMBER		PART DESCRIPTION		TITLE										
A3D1515-XXXXX		RoHS compliant per EU Directive 2011/65/EU		3D Coil 17.5x15.7x3.8mmMAX, SMD (2.47mH~10.0mH)										
<p style="text-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 style="text-align: center;"><u>TOLERANCE ARE:</u></p> <table border="0"> <tr> <td>INCH</td> <td>mm</td> <td>ANGLE</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>	INCH	mm	ANGLE	.XXX ± .005	.XX ± 0.13	X.X ± 0.3	.XX ± .02	.X ± 0.5	X. ± 1	APPROVALS		DATE	
		INCH	mm	ANGLE										
		.XXX ± .005	.XX ± 0.13	X.X ± 0.3										
		.XX ± .02	.X ± 0.5	X. ± 1										
		DRAWN BY		J.S. CHEN		02/10/17								
PROJ. ENG		J.J. LI		02/10/17										
APPROVED BY		J.J. LI		02/10/17										
Q.A.		D. LUO		02/10/17										
 E & E Magnetic Products Ltd.				DRAWING NO./MODEL										
<p style="text-align: center;"><b>A3D1515-XXXXX</b></p>				REV										
<p style="text-align: center;"><b>01</b></p>				SCALE										
<p style="text-align: center;"><b>DO NOT SCALE</b></p>				PAGE 1 OF 4										



Recommended Pad Layout



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.

## MECHANICAL OUTLINE



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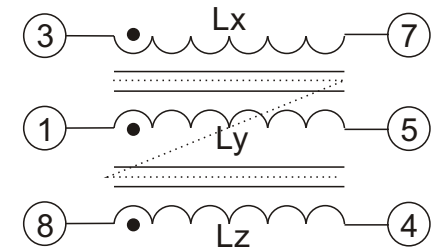
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(2-3 and 6-7 are interconnected)

## SCHEMATIC

### ELECTRICAL SPECIFICATION @25°C:

E&E part number A3D1515-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) Max	Sensitivity (mVpp/App/m) Min	Marking (YYYY)
A3D1515-0247J	2.47	±5	125	23	500	1000	75	75	55	0247J
A3D1515-0258J	2.58	±5	125	23	500	800	75	75	57	0258J
A3D1515-0345J	3.45	±5	125	27	450	800	85	100	67	0345J
A3D1515-0405J	4.05	±5	125	27	400	800	98	98	72	0405J
A3D1515-0477J	4.77	±5	125	27	380	800	100	136	85	0477J
A3D1515-0490J	4.90	±5	125	27	350	750	105	140	85	0490J
A3D1515-0720J	7.20	±5	125	28	330	700	120	172	95	0720J
A3D1515-1000J	10.0	±5	125	20	250	550	165	258	105	1000J

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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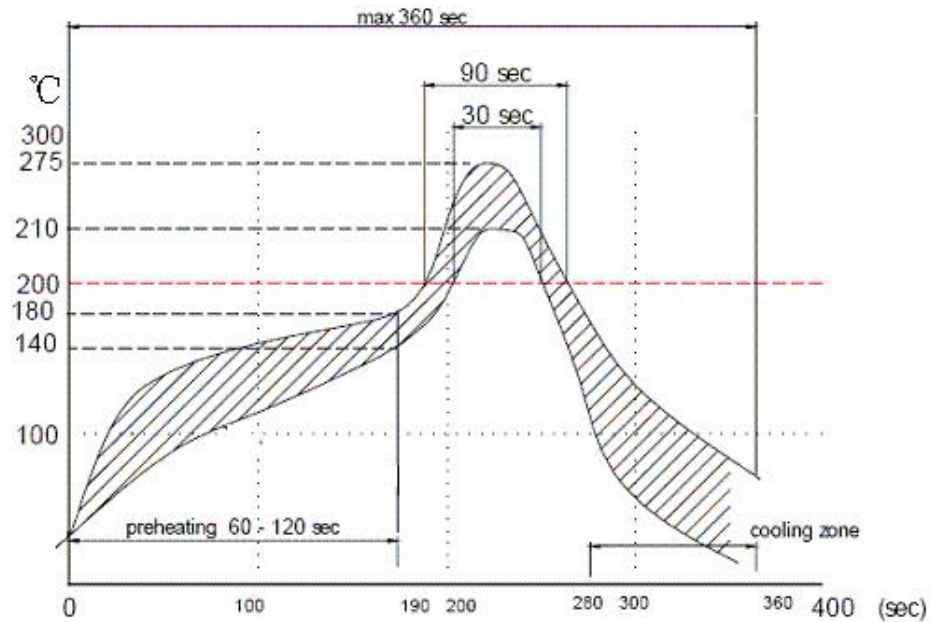
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## 9. Recommended Reflow profile.



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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