


REVISIONS

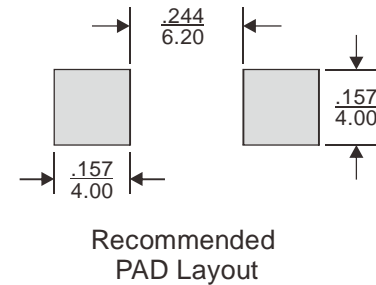
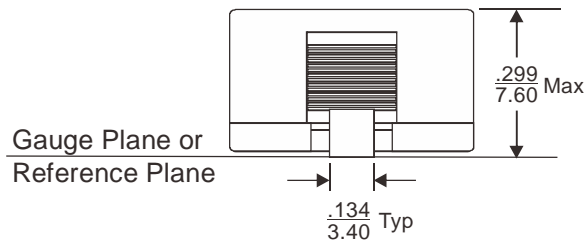
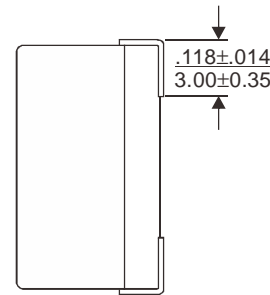
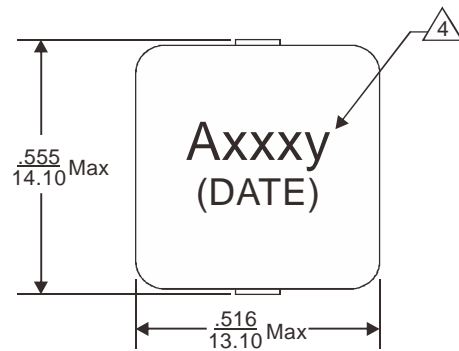
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	12/28/15

Automotive
Application

When ordering, please add suffix "T" to the part number for tape & reel packaging(13" reel).

PAGE 5 IS FOR INTERNAL ONLY

PART NUMBER		PART DESCRIPTION		TITLE																
ARIS1375A-xxxyF		RoHS compliant per EU Directive 2011/65/EU		POWER INDUCTOR, SMD, 2 PIN																
<p align="center">WARNING !</p> <p>ALL SHEETS OF THIS DOCUMENT ARE CONTROLLED DOCUMENTATION AND ARE NOT TO BE RELEASED OUTSIDE OF E&E OR ITS SUB-CONTRACTORS WITHOUT AUTHORIZATION.</p>	<p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.</p> <p align="center">TOLERANCE ARE:</p> <table border="0"> <tr> <td>INCH</td> <td>mm</td> <td>ANGLE</td> </tr> <tr> <td>.XXX ± .005</td> <td>.XX ± .13</td> <td>X.X ± 0.3</td> </tr> <tr> <td>.XX ± .02</td> <td>.X ± .5</td> <td>X. ± 1</td> </tr> </table>	INCH	mm	ANGLE	.XXX ± .005	.XX ± .13	X.X ± 0.3	.XX ± .02	.X ± .5	X. ± 1	APPROVALS	DATE	 <p>E & E Magnetic Products Ltd.</p> <table border="1"> <tr> <td colspan="2">DRAWING NO./MODEL</td> <td>REV</td> </tr> <tr> <td colspan="2">ARIS1375A-xxxyF</td> <td>01</td> </tr> </table>		DRAWING NO./MODEL		REV	ARIS1375A-xxxyF		01
		INCH	mm	ANGLE																
		.XXX ± .005	.XX ± .13	X.X ± 0.3																
		.XX ± .02	.X ± .5	X. ± 1																
		DRAWING NO./MODEL		REV																
ARIS1375A-xxxyF		01																		
DRAWN BY	J. FENG	12/28/15																		
PROJ. ENG	J. FENG	12/28/15																		
APPROVED BY	J. YANG	12/28/15																		
Q.A.	D. LUO	12/28/15																		
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MECHANICAL OUTLINE



E & E Magnetic Products Ltd.

DRAWING NO./MODEL

ARIS1375A-xxxxyF

REV

01

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1. Dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
2. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.
3. Coplanarity: $\frac{.004}{0.10}$ maximum.
4. Marking "Axxxxy" is the inductance code which is described in page 3.
5. "(DATE)" includes at least the manufacturing date code (in YWW format) plus manufacturing site code.

ELECTRICAL SPECIFICATION @25°C:

E&E Part Number ARIS1375A-xxxxyF	Rated Inductance (μ H)	Inductance Tolerances (%) L	DCR (m Ω) Max	\triangle 8	\triangle 9	\triangle 10	Volts- μ Sec (V μ S)Typ	Marking (Axxxxy)
				Isat 20% rolloff (A)	Isat 30% rolloff (A)	Irms (A)		
ARIS1375A-R20LF	0.20	\pm 15	0.50	65	95	46.7	2.87	AR20L
ARIS1375A-R47LF	0.47	\pm 15	0.88	40	57	33.7	4.78	AR47L
ARIS1375A-1R0LF	1.0	\pm 15	1.87	28	41	23.7	6.70	A1R0L
ARIS1375A-1R5LF	1.5	\pm 15	2.27	22	32	21.0	8.46	A1R5L
ARIS1375A-2R2LF	2.2	\pm 15	3.37	18	26	17.2	10.4	A2R2L
ARIS1375A-3R3LF	3.3	\pm 15	4.87	15	22	14.3	12.4	A3R3L
ARIS1375A-4R3LF	4.3	\pm 15	5.90	13.2	19.1	13.0	14.4	A4R3L
ARIS1375A-6R8LF	6.8	\pm 15	9.40	11.4	15.1	10.3	18.1	A6R8L
ARIS1375A-100LF	10.0	\pm 15	14.0	8.6	12.5	8.50	22.0	A100L
ARIS1375A-220LF	22.0	\pm 15	25.7	6.0	8.7	6.30	31.5	A220L
ARIS1375A-330LF	33.0	\pm 15	48.8	4.8	7.0	4.42	37.3	A330L
ARIS1375A-470LF	47.0	\pm 15	72.3	3.9	5.7	3.65	44.8	A470L

6. Add the tolerance code of inductance by replacing "Y" of the part number with "L".

\triangle 7 Inductance is tested at 100kHz, 1.0Vrms.

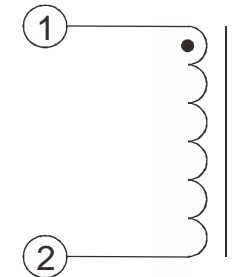
\triangle 8 Saturating current, Isat, is the current at which the inductance of the component drops by 20% typical at an ambient temperature of 25°C.

\triangle 9 Saturating current, Isat, is the current at which the inductance of the component drops by 30% typical at an ambient temperature of 25°C.

\triangle 10 Heating current, Irms, is the current required to raise the component temperature by approximately 40°C.

11. Operating temperature range: -40°C to +125°C.

12. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



SCHEMATIC



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DRAWING NO./MODEL

ARIS1375A-xxxxyF

REV

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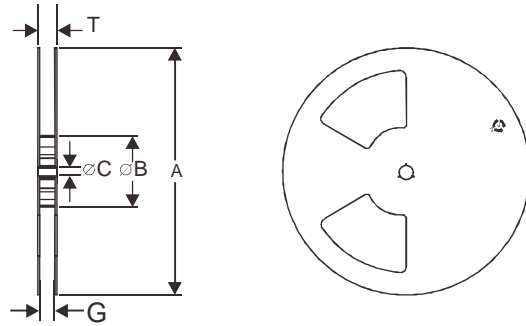
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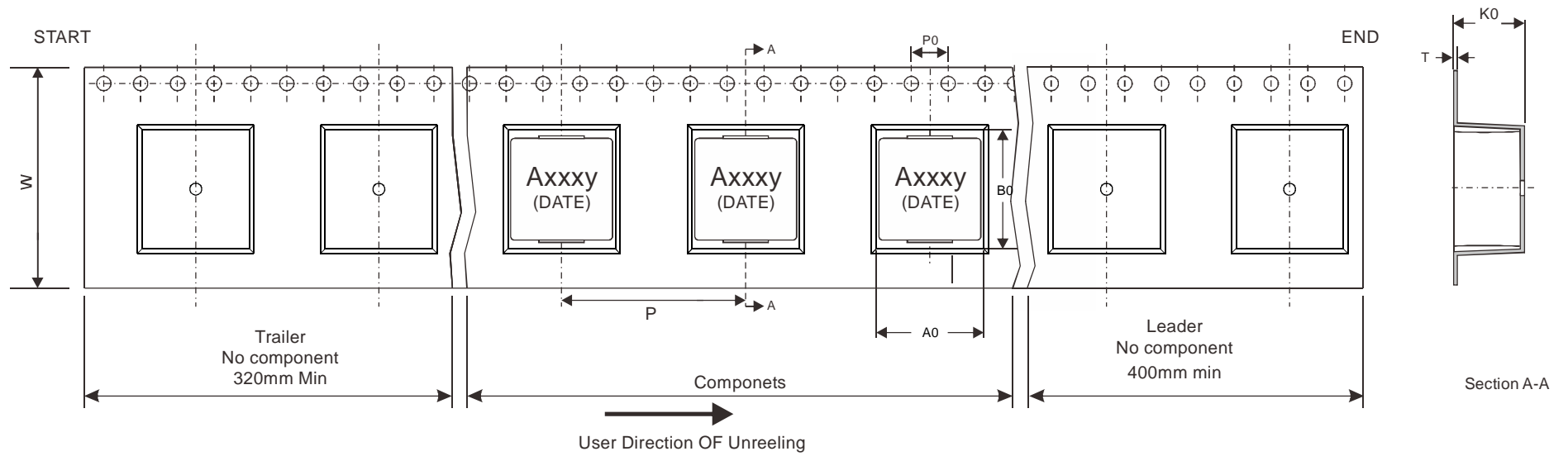
PACKAGING INFORMATION

(1) CONFIGURATION:(mm)




SYMBOL	A	B	C	G	T
DIM	330	100	13	24.4	29.6

(2) TAPE DIMENSIONS:(mm)



SYMBOL	A0	B0	K0	W	P	P0	T
DIM	13.2 _{Typ}	14.2 _{Typ}	7.65 _{Typ}	24.0 ^{+0.30} _{-0.00}	20.0 [±] _{0.10}	4.0 [±] _{0.10}	0.50 _{REF}

(3) Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

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