

REVISIONS

REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	12/25/15

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
ARIS1265A-xxxyF	RoHS compliant per EU Directive 2011/65/EU

TITLE
POWER INDUCTOR, SMD, 2 PIN

WARNING !


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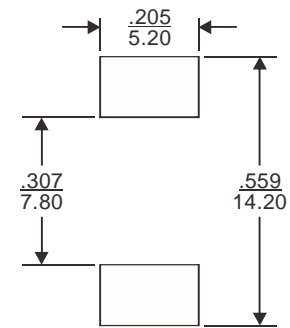
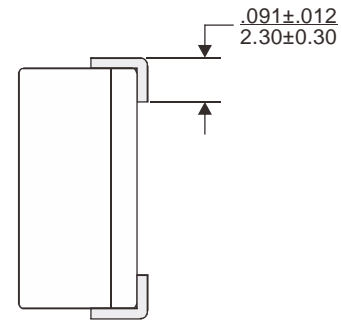
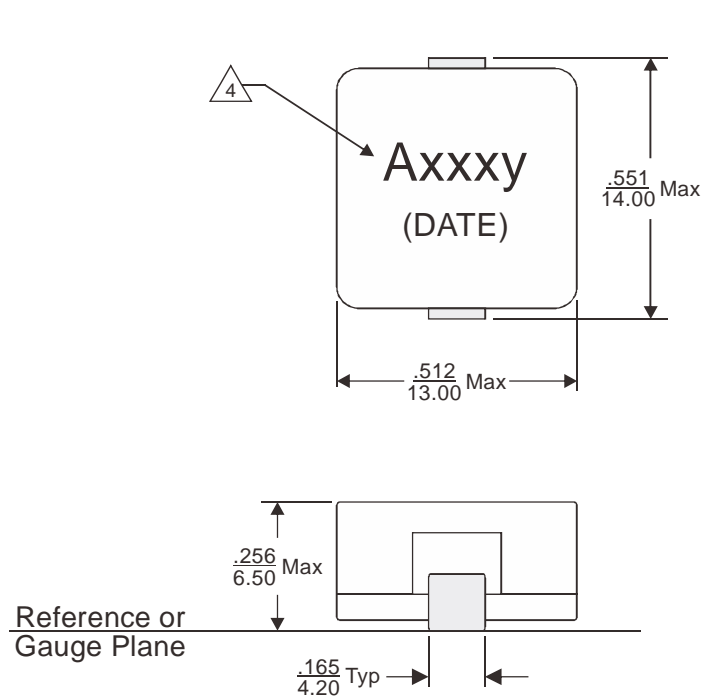
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.

TOLERANCE ARE:

<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>
.XXX ± .005	.XX ± .13	X.X ± 0.3
.XX ± .02	.X ± .5	X. ± 1

APPROVALS	DATE
DRAWN BY J. FENG	12/25/15
PROJ. ENG J. FENG	12/25/15
APPROVED BY J. YANG	12/25/15
Q.A. D. LUO	12/25/15

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Recommended Pad Layout

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.

MECHANICAL OUTLINE



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ELECTRICAL SPECIFICATION @25°C:

E&E Part Number ARIS1265A-xxxxyF	Inductance (μH)	Inductance Tolerances (%)	DCR (mΩ) Typ	DCR (mΩ) Max	Isat (A)	Irms (A)	Marking (Axxxxy)
		M			8	9	
ARIS1265A-R47MF	0.47	±20	1.0	1.2	51	38	AR47M
ARIS1265A-R56MF	0.56	±20	1.2	1.4	46	37	AR56M
ARIS1265A-R68MF	0.68	±20	1.4	1.6	42	35	AR68M
ARIS1265A-R82MF	0.82	±20	1.6	1.9	38	33	AR82M
ARIS1265A-1R0MF	1.0	±20	1.7	2.0	35	32	A1R0M
ARIS1265A-1R5MF	1.5	±20	2.5	3.0	28	27	A1R5M
ARIS1265A-1R8MF	1.8	±20	2.8	3.6	25	23	A1R8M
ARIS1265A-2R2MF	2.2	±20	3.5	4.2	23	22	A2R2M
ARIS1265A-3R3MF	3.3	±20	5.7	6.8	19	18	A3R3M
ARIS1265A-6R8MF	6.8	±20	13.1	14.0	13	11.5	A6R8M
ARIS1265A-130MF	13	±20	11.2	12.4	9	10	A130M
ARIS1265A-180MF	18	±20	22	24.2	7.5	6.7	A180M

6. Add the tolerance code of inductance by replacing "y" of the part number by: M=±20%.

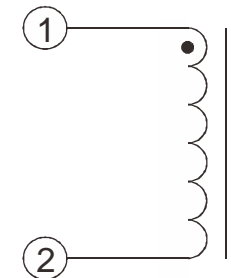
7. Inductance is tested at 100kHz, 0.1Vrms.

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.


9. Heating current, Iirms, is the current required to raise the component temperature by approximately 40°C.

10. Operating temperature range: -55°C to +125°C.

11. 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.

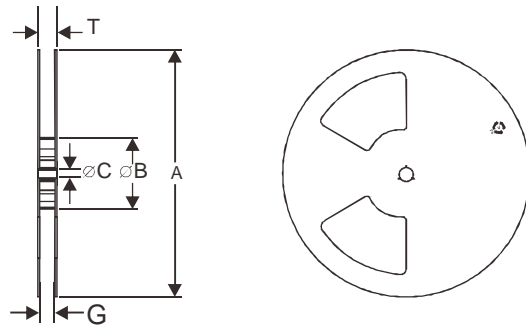


SCHEMATIC

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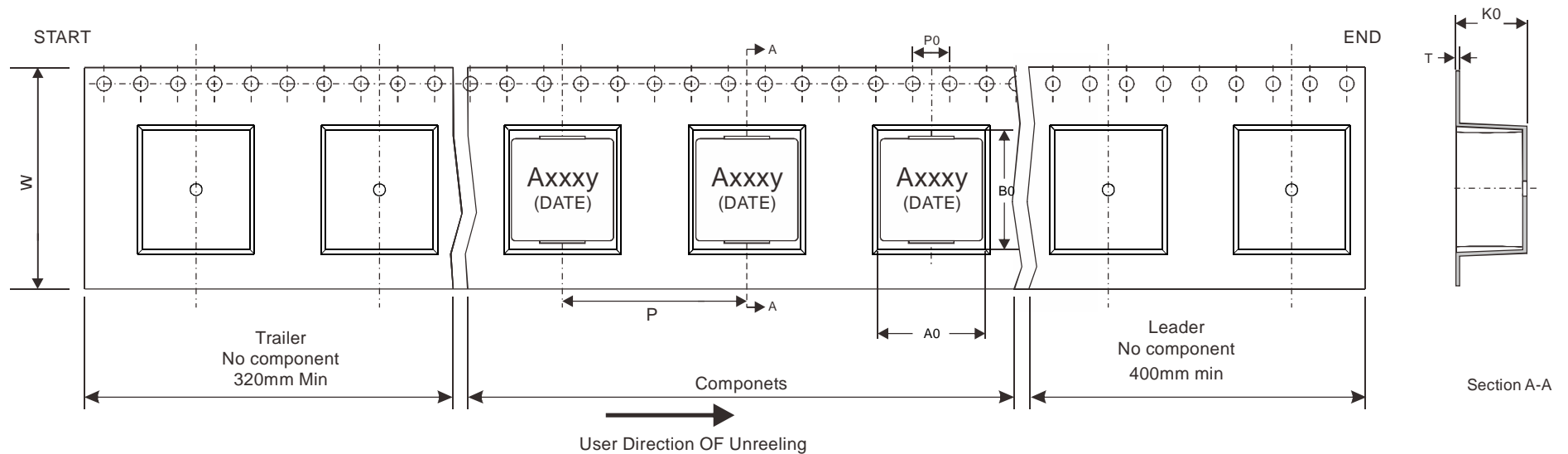
PACKAGING INFORMATION

(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}	6.65 _{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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