

REVISIONS

REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	05/19/16

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
ARIS1265B-xxxyF	RoHS compliant per EU Directive 2011/65/EU

TITLE	POWER INDUCTOR, SMD, 2 PIN
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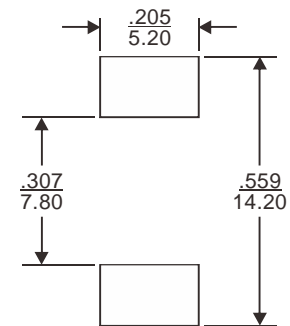
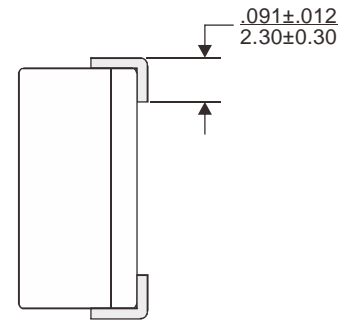
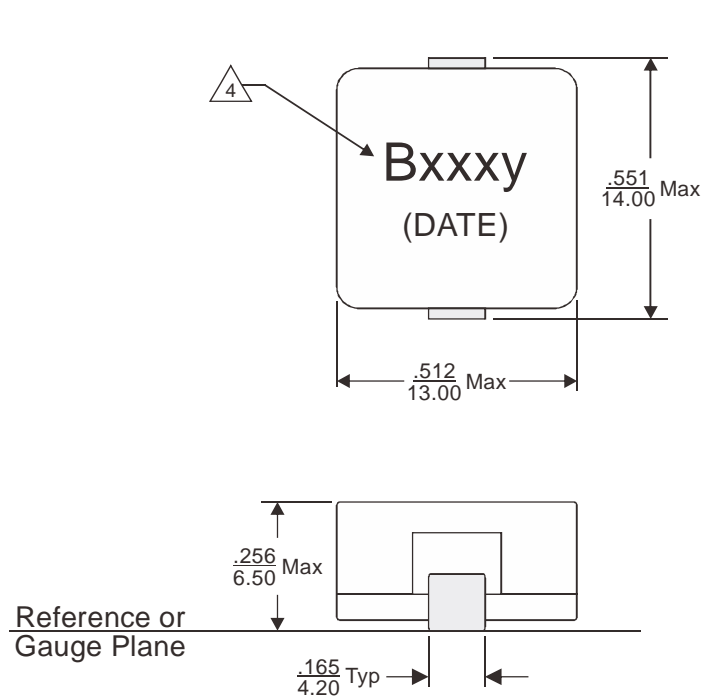
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.

TOLERANCE ARE:

INCH	mm	ANGLE
.XXX ± .005	.XX ± .13	X.X ± 0.3
.XX ± .02	.X ± .5	X. ± 1

APPROVALS	DATE
DRAWN BY J. FENG	05/19/16
PROJ. ENG J. FENG	05/19/16
APPROVED BY J. YANG	05/19/16
Q.A. D. LUO	05/19/16

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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 "Bxxxy" 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 ARIS1265B-xxxxF	Inductance ⁷ (μ H)	Inductance Tolerances (%)	DCR (m Ω) Typ	DCR (m Ω) Max	Isat ⁸ (A)	Irms ⁹ (A)	Marking (Bxxxx)
		M					
ARIS1265B-R47MF	0.47	\pm 20	1.0	1.2	51	38	BR47M
ARIS1265B-R56MF	0.56	\pm 20	1.2	1.4	46	37	BR56M
ARIS1265B-R68MF	0.68	\pm 20	1.4	1.6	42	35	BR68M
ARIS1265B-R82MF	0.82	\pm 20	1.6	1.9	38	33	BR82M
ARIS1265B-1R0MF	1.0	\pm 20	1.7	2.0	35	32	B1R0M
ARIS1265B-1R5MF	1.5	\pm 20	2.5	3.0	28	27	B1R5M
ARIS1265B-1R8MF	1.8	\pm 20	2.8	3.6	25	23	B1R8M
ARIS1265B-2R2MF	2.2	\pm 20	3.5	4.2	23	22	B2R2M
ARIS1265B-3R3MF	3.3	\pm 20	5.7	6.8	19	18	B3R3M
ARIS1265B-6R8MF	6.8	\pm 20	13.1	14.0	13	11.5	B6R8M
ARIS1265B-130MF	13	\pm 20	11.2	12.4	9	10	B130M
ARIS1265B-180MF	18	\pm 20	22	24.2	7.5	6.7	B180M

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

⁷ Inductance is tested at 100kHz, 0.1Vrms.

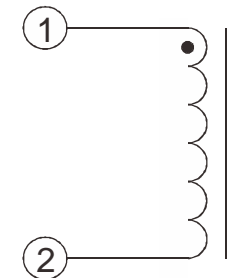
⁸ Saturating current, Isat, is the current at which the inductance of the component drops by 20% typical at an ambient temperature of 25°C.

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


10. Operating frequency range up to 3MHz.

11. Operating temperature range: -55°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.

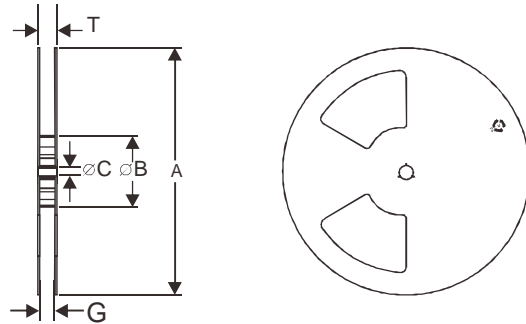


SCHEMATIC

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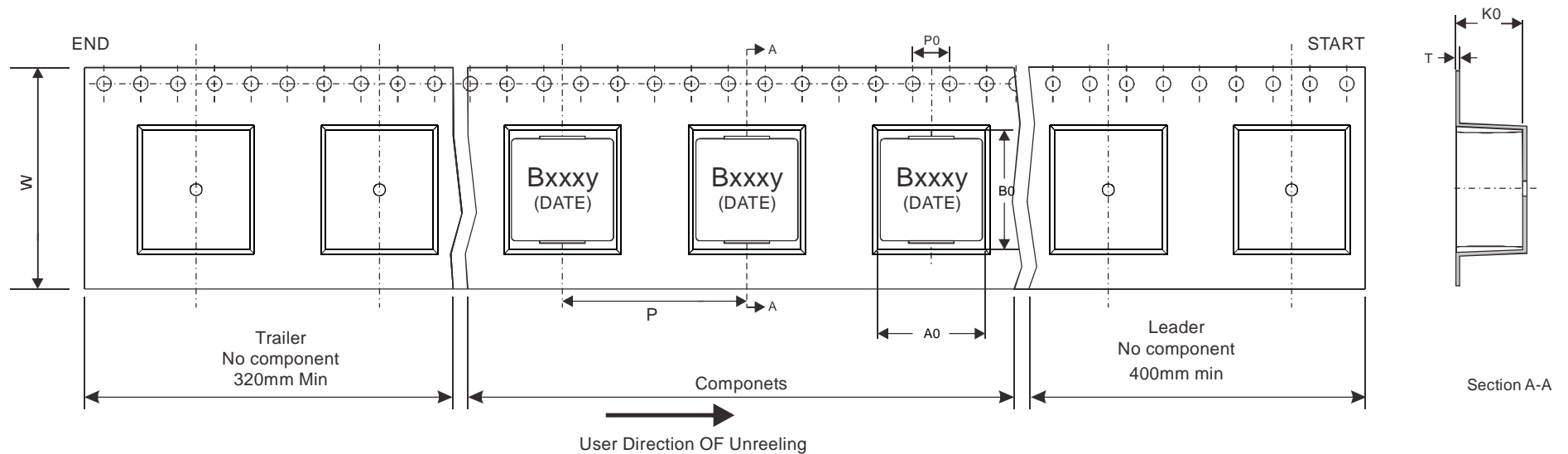
PACKAGING INFORMATION

(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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