

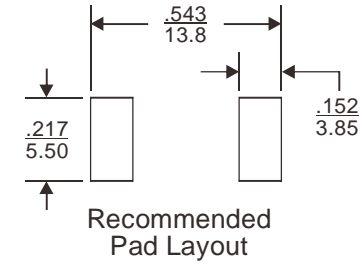
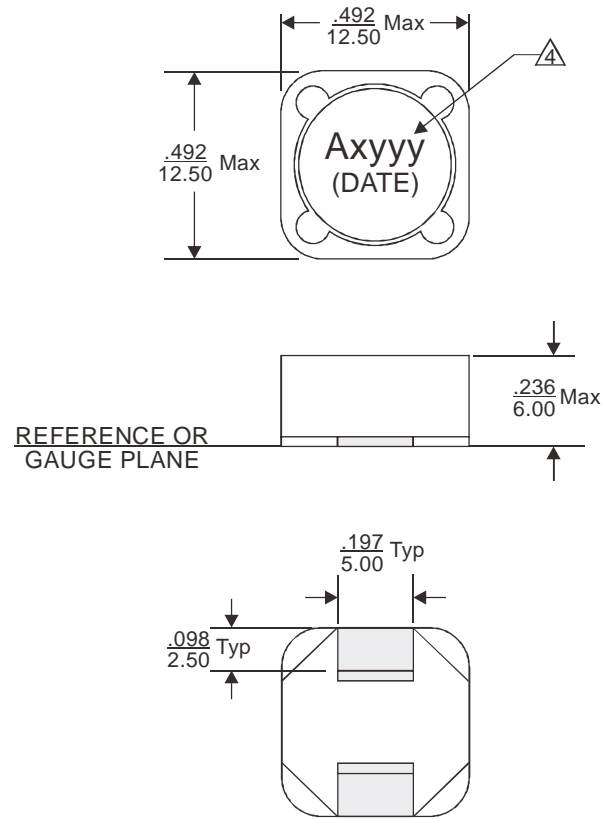
		REVISIONS			
		REV.	DESCRIPTION	ECN NO.	DATE
Special Characteristic Symbols:		01	FIRST RELEASE	N/A	10/20/14
●	SAFETY	02	UPDATE THE TEMPLATE, UNIT's CONSTRUCTION AND PERFORMANCE	EE17400	08/04/16
◐	CRITICAL				
◑	IMPORTANT				

Automotive
Application

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

PAGE 5 AND 7 ARE FOR INTERNAL ONLY

PART NUMBER	PART DESCRIPTION		TOLERANCE ARE:		APPROVALS		DATE	TITLE	
ASISDR125x-yyyF	RoHS compliant per EU Directive 2011/65/EU				DRAWN BY J. FENG		08/04/16	PPIN, SHIELDED DRUM, SMD, 2PIN	
<p>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>	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.		TOLERANCE ARE:		PROJ. ENG J. FENG		08/04/16	E & E Magnetic Products Ltd.	
	INCH	mm	ANGLE	APPROVED BY J. YANG		08/04/16	DRAWING NO./MODEL		REV
	.XXX ± .005	.XX ± 0.13	X.X ± 0.3	Q.A. D. LUO		08/04/16	ASISDR125x-yyyF		02
	.XX ± .02	.X ± 0.5	X. ± 1				SCALE DO NOT SCALE		PAGE 1 OF 7



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 "Axyyy" is the inductance code which is described in page 3.

5. "(DATE)" includes at least the manufacturing date code (in YWW format).

6. All dimensions are measured with exclusive of adhesive and solder.

MECHANICAL OUTLINE



E & E Magnetic Products Ltd.

DRAWING NO./MODEL

ASISDR125x-yyyF

REV

02

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ELECTRICAL SPECIFICATION @25°C:

E & E Part No. ASISDR125x-yyyF	Rated Inductance (μ H)	Inductance (μ H)	Inductance tolerance	DCR (m Ω) Typ.	I _{rms} (A)	Isat 1 (A)	Isat 2 (A)	Marking (Axyyy)
			M					
ASISDR125M-R47F	0.47	0.453	±20%	1.6	18.47	33.20	26.56	AMR47
ASISDR125M-1R0F	1.00	0.854	±20%	2.1	15.94	23.71	18.97	AM1R0
ASISDR125M-1R5F	1.50	1.41	±20%	3.3	12.89	18.44	14.76	AM1R5
ASISDR125M-2R2F	2.20	2.12	±20%	4.8	10.61	15.09	12.07	AM2R2
ASISDR125M-3R3F	3.30	2.89	±20%	5.8	9.69	12.77	10.22	AM3R3
ASISDR125M-4R7F	4.70	4.90	±20%	9.2	7.67	9.76	7.81	AM4R7
ASISDR125M-6R8F	6.80	6.23	±20%	12	6.81	8.74	6.99	AM6R8
ASISDR125M-8R2F	8.20	7.49	±20%	13	6.41	7.90	6.32	AM8R2
ASISDR125M-100F	10.0	9.22	±20%	17	5.57	7.22	5.77	AM100
ASISDR125M-150F	15.0	14.67	±20%	27	4.45	5.72	4.58	AM150
ASISDR125M-220F	22.0	20.65	±20%	35	3.95	4.74	3.79	AM220
ASISDR125M-330F	33.0	31.47	±20%	53	3.19	3.86	3.09	AM330
ASISDR125M-470F	47.0	47.83	±20%	81	2.59	3.13	2.506	AM470
ASISDR125M-680F	68.0	68.48	±20%	120	2.125	2.635	2.108	AM680
ASISDR125M-820F	82.0	80.86	±20%	135	2.005	2.406	1.925	AM820
ASISDR125M-101F	100	97.6	±20%	178	1.745	2.213	1.771	AM101
ASISDR125M-151F	150	150.0	±20%	273	1.409	1.785	1.428	AM151
ASISDR125M-221F	220	222.8	±20%	416	1.142	1.469	1.175	AM221
ASISDR125M-331F	330	325.1	±20%	543	0.998	1.194	0.955	AM331
ASISDR125M-471F	470	466.3	±20%	790	0.826	1.006	0.805	AM471
ASISDR125M-681F	680	683.3	±20%	1200	0.673	0.834	0.667	AM681
ASISDR125M-821F	820	813.6	±20%	1360	0.632	0.758	0.606	AM821
ASISDR125M-102F	1000	992.8	±20%	1780	0.552	0.695	0.556	AM102

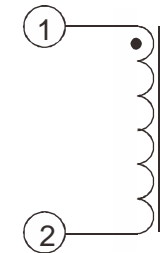
13. Storage temperature, Component: -40°C to +165°C.

Tape and reel packaging: -40°C to +80°C.

14. Operating temperature range: -40°C to +165°C.

15. 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.

16. Product has been designed to be compliant with AEC-Q200.



SCHEMATIC

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

8. Rated inductance is for reference only.

9. Inductance tested at 100kHz, 0.25Vrms.

10. The heating current, I_{rms}, is the DC current required to raise the component temperature by approximately 40°C at an ambient temperature of 25°C.

11. Isat 1, Peak current for approximate 30% roll off at an ambient temperature of 25°C.

12. Isat 2, Peak current for approximate 40% roll off at an ambient temperature of 125°C.



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DRAWING NO./MODEL

ASISDR125x-yyyF

REV

02

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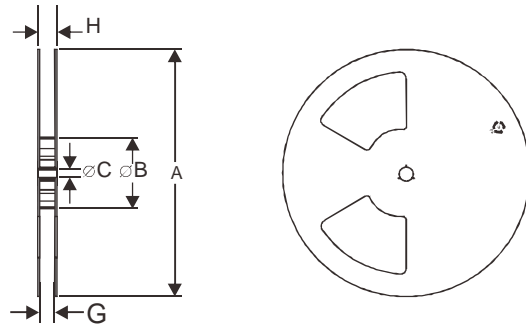
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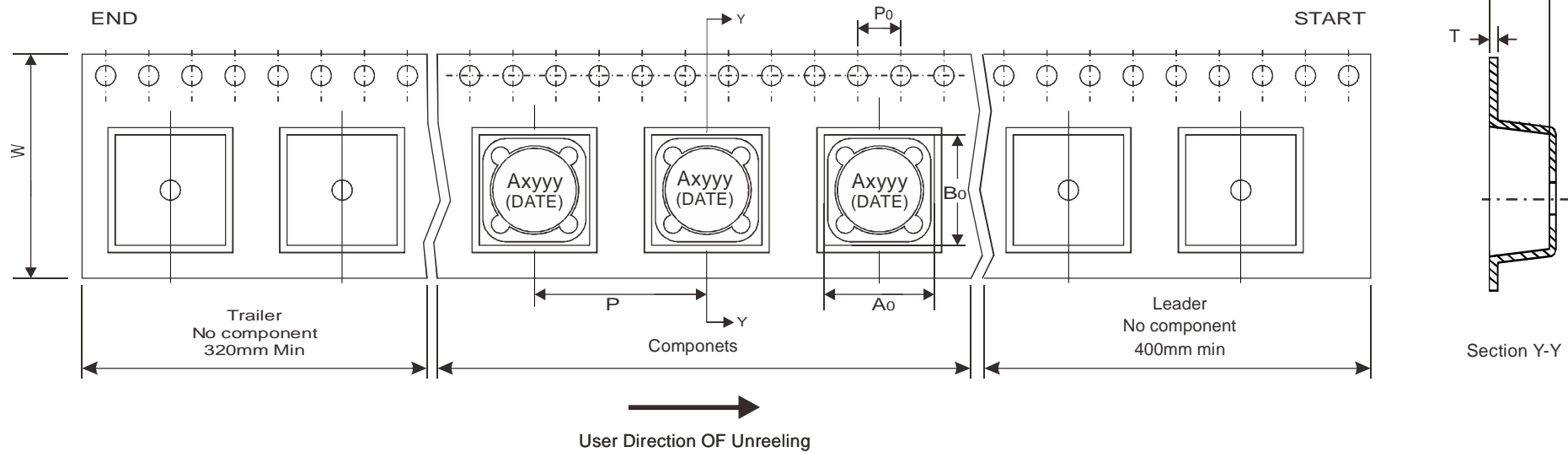
PACKAGING INFORMATION

(1) CONFIGURATION:(mm)




SYMBOL	A	B	C	G	H
DIM	330	100	13	24.4	29.4

(2) TAPE DIMENSIONS:(mm)



SYMBOL	A0	B0	K0	W	P	P0	T
DIM	12.7 Typ	12.7 Typ	6.10 Typ	24.0 ^{+0.30} / _{-0.00}	16.0 \pm _{0.10}	4.0 \pm _{0.10}	0.50 REF

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

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