
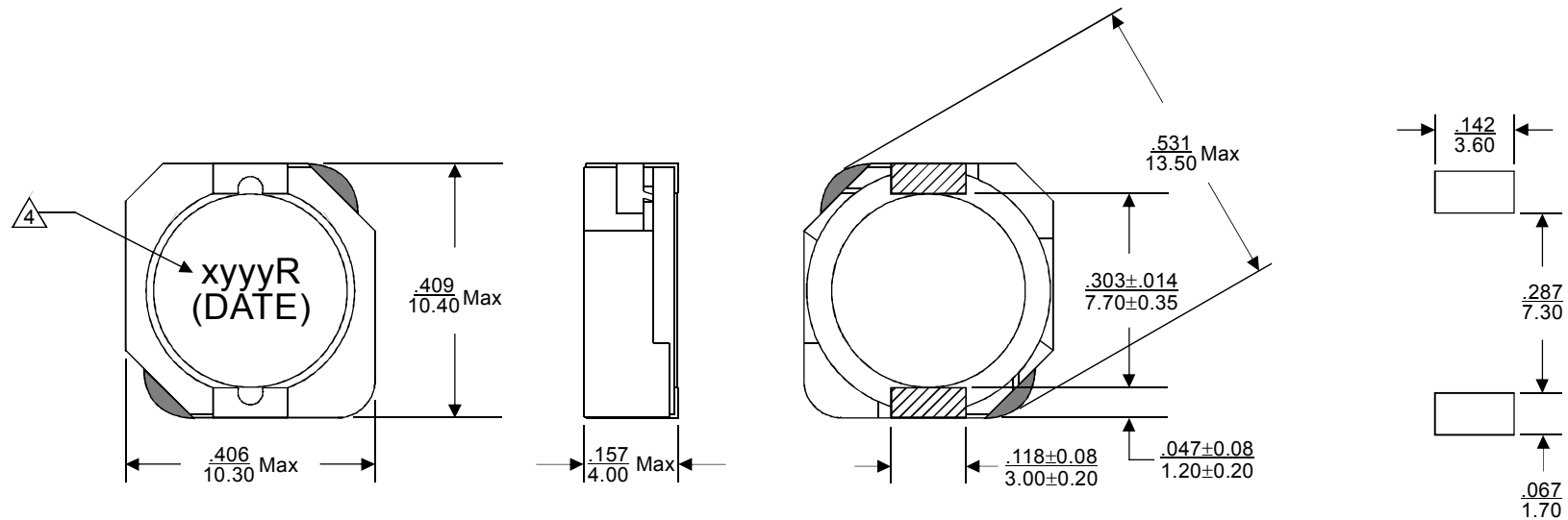


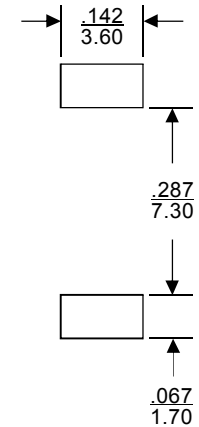
REVISIONS			
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	09/04/12
02	CORRECT COPY ERROR	EE14045	09/13/12

PAGE 5 IS FOR INTERNAL ONLY

PART NUMBER		PART DESCRIPTION		TITLE											
ASIS104Rx-yyyR		RoHS compliant per EU Directive 2002/95/EC(without exemption of solder content), RoHS6		POWER INDUCTOR, SHIELDED, 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>		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.		APPROVALS											
		<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 ±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	DATE		 <p>E & E Magnetic Products Ltd.</p>
		INCH	mm	ANGLE											
		.XXX ±.005	.XX ±0.13	X.X ±0.3											
		.XX ±.02	.X ±0.5	X. ±1											
DRAWN BY		J. FENG		09/13/12											
PROJ. ENG		F.Z.WANG		09/13/12											
APPROVED BY		J. YANG		09/13/12											
Q.A.		S.W.HUANG		09/13/12											
DRAWING NO./MODEL		ASIS104Rx-yyyR		REV											
SCALE		DO NOT SCALE		PAGE 1 OF 5											



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 "xyyyR" is the inductance code which is described in page 3.
5. "(DATE)" includes at least the manufacturing date code (in YYWW format).

MECHANICAL OUTLINE



E & E Magnetic Products Ltd.

DRAWING NO./MODEL

ASIS104Rx-yyyR

REV

02

SCALE

DO NOT SCALE

PAGE

OF

2

5

5

ELECTRICAL SPECIFICATION @25°C:

E&E Part Number ASIS104Rx-yyyR	Inductance (μ H)	Inductance Tolerance	Test \triangle Frequency (KHz)	DCR (m Ω) Max.	Rated D.C. Current (A)	Marking (xyyyR)
		N				
ASIS104RN-1R5R	1.5	\pm 30%	100	8.1	10	N1R5R
ASIS104RN-2R5R	2.5	\pm 30%	100	10	7.5	N2R5R
ASIS104RN-3R8R	3.8	\pm 30%	100	13	6.0	N3R8R
ASIS104RN-5R2R	5.2	\pm 30%	100	22	5.5	N5R2R
ASIS104RN-7R0R	7.0	\pm 30%	100	27	4.8	N7R0R
ASIS104RN-100R	10	\pm 30%	100	35	4.4	N100R
ASIS104RN-150R	15	\pm 30%	100	50	3.6	N150R
ASIS104RN-220R	22	\pm 30%	100	73	2.9	N220R
ASIS104RN-330R	33	\pm 30%	100	93	2.3	N330R
ASIS104RN-470R	47	\pm 30%	100	128	2.1	N470R
ASIS104RN-680R	68	\pm 30%	100	213	1.5	N680R
ASIS104RN-101R	100	\pm 30%	100	304	1.35	N101R
ASIS104RN-151R	150	\pm 30%	100	506	1.15	N151R
ASIS104RN-221R	220	\pm 30%	100	756	0.92	N221R
ASIS104RN-331R	330	\pm 30%	100	1090	0.70	N331R

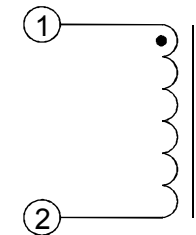
6. Add the tolerance code of inductance by replacing "X" of the part number by: N= \pm 30%.

\triangle 7. Test frequency is specified as the frequency for measuring the inductance.


\triangle 8. Rated D.C. current indicates the value of the current when the inductance is 35% lower than its initial value or the current when the temperature of coil rising $\Delta T=30^\circ\text{C}$ at D.C. Superposition.

9. Operating temperature range: -40°C to $+125^\circ\text{C}$.

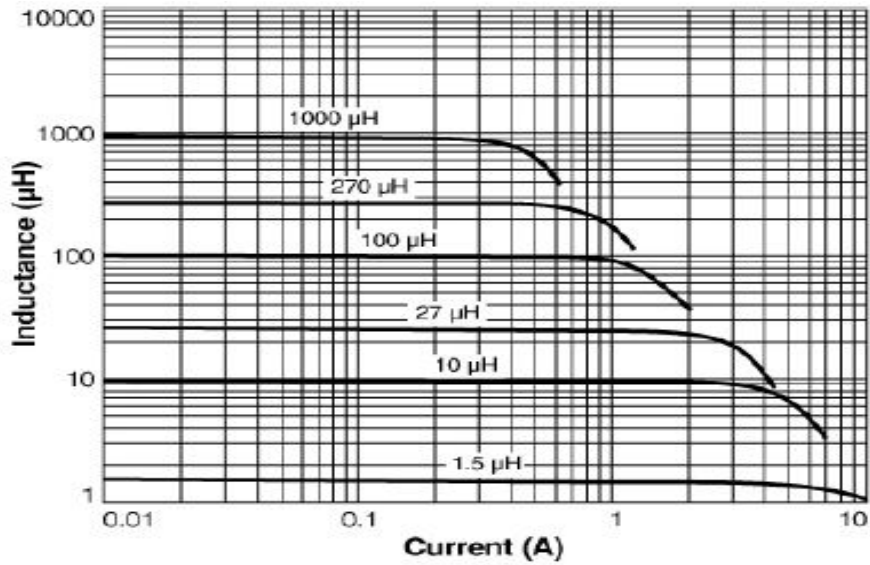
10. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature.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



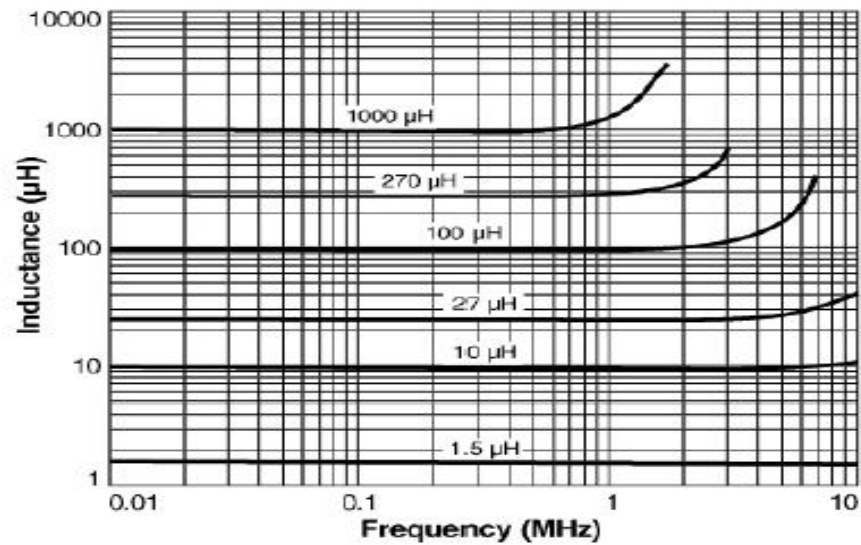
SCHEMATIC

 E & E Magnetic Products Ltd.	
DRAWING NO./MODEL	REV
ASIS104Rx-yyyR	02
SCALE	PAGE OF
DO NOT SCALE	3 OF 5

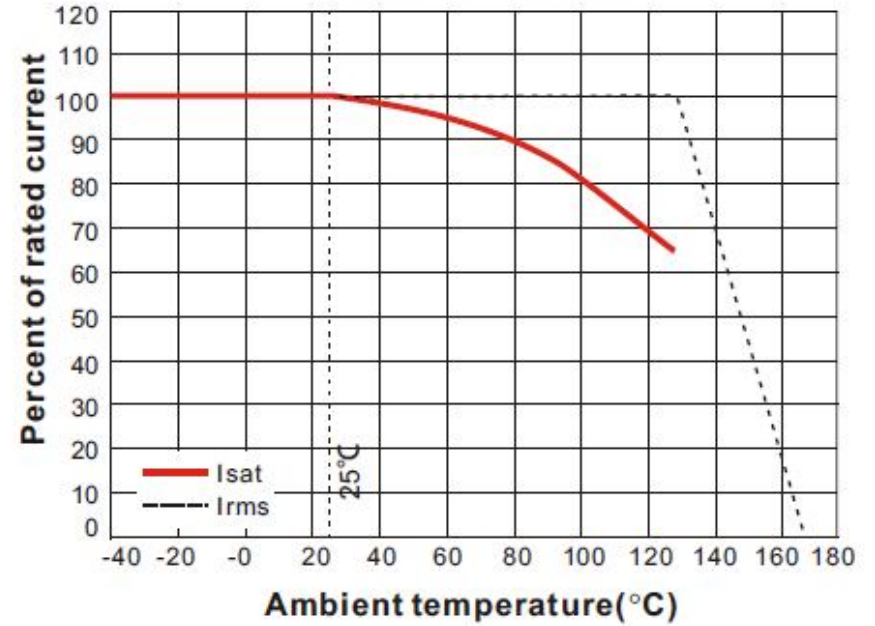
Typical L vs Frequency



Typical L vs Current



Current Derating



E & E Magnetic Products Ltd.

DRAWING NO./MODEL

ASIS104Rx-yyyR

REV

02

SCALE

DO NOT SCALE

PAGE

4

OF

5