
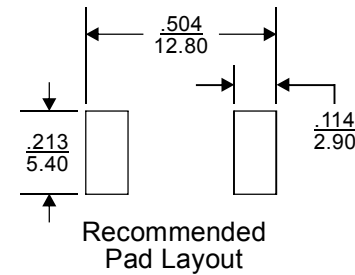
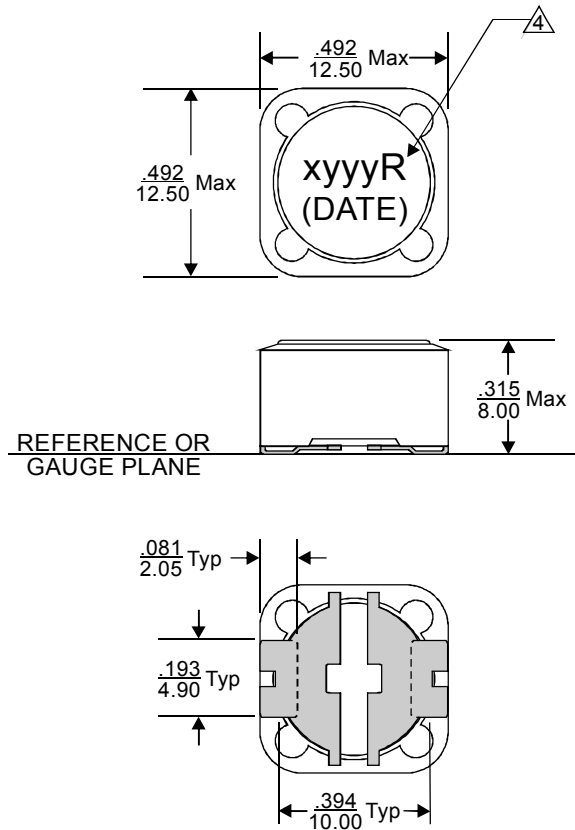


REVISIONS			
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	09/04/12

PAGE 5 IS FOR INTERNAL USE ONLY

PART NUMBER		PART DESCRIPTION		TITLE											
ASISCDRH127x-yyyR		RoHS compliant per EU Directive 2002/95/EC(without exemption of solder content), RoHS6		POWER INDUCTOR, SMD, SHIELDED											
<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		09/04/12											
PROJ. ENG		F.Z.WANG		09/04/12											
APPROVED BY		J. YANG		09/04/12											
Q.A.		S.W.HUANG		09/04/12											
DRAWING NO./MODEL		ASISCDRH127x-yyyR		REV											
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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 "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



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ELECTRICAL SPECIFICATION @25°C:

E&E Part No. ASISCDRH127x-yyyR	Inductance, L (μ H)	Inductance Tolerance(%)		Test Frequency (kHz)	DCR (m Ω) Max	Rated D.C. Current, Idc (A)	Marking (yyyyR)
		M	N				
ASISCDRH127N-1R2R	1.2	N/A	+40/-20	100	7.0	9.80	N1R2R
ASISCDRH127N-2R4R	2.4	N/A	+40/-20	100	11.5	8.00	N2R4R
ASISCDRH127N-3R5R	3.5	N/A	+40/-20	100	13.5	7.50	N3R5R
ASISCDRH127N-4R7R	4.7	N/A	+40/-20	100	15.8	6.80	N4R7R
ASISCDRH127N-6R1R	6.1	N/A	+40/-20	100	17.6	6.60	N6R1R
ASISCDRH127N-7R6R	7.6	N/A	+40/-20	100	20.0	5.90	N7R6R
ASISCDRH127M-100R	10	\pm 20	N/A	1	21.6	5.40	M100R
ASISCDRH127M-120R	12	\pm 20	N/A	1	24.3	4.90	M120R
ASISCDRH127M-150R	15	\pm 20	N/A	1	27.0	4.50	M150R
ASISCDRH127M-180R	18	\pm 20	N/A	1	39.2	3.90	M180R
ASISCDRH127M-220R	22	\pm 20	N/A	1	43.2	3.60	M220R
ASISCDRH127M-270R	27	\pm 20	N/A	1	45.9	3.40	M270R
ASISCDRH127M-330R	33	\pm 20	N/A	1	64.8	3.00	M330R
ASISCDRH127M-390R	39	\pm 20	N/A	1	72.9	2.75	M390R
ASISCDRH127M-470R	47	\pm 20	N/A	1	100	2.50	M470R
ASISCDRH127M-560R	56	\pm 20	N/A	1	110	2.35	M560R
ASISCDRH127M-680R	68	\pm 20	N/A	1	140	2.10	M680R
ASISCDRH127M-820R	82	\pm 20	N/A	1	160	1.95	M820R
ASISCDRH127M-101R	100	\pm 20	N/A	1	220	1.70	M101R
ASISCDRH127M-121R	120	\pm 20	N/A	1	250	1.60	M121R
ASISCDRH127M-151R	150	\pm 20	N/A	1	280	1.42	M151R
ASISCDRH127M-181R	180	\pm 20	N/A	1	350	1.30	M181R
ASISCDRH127M-221R	220	\pm 20	N/A	1	390	1.16	M221R
ASISCDRH127M-271R	270	\pm 20	N/A	1	560	1.06	M271R
ASISCDRH127M-331R	330	\pm 20	N/A	1	640	0.95	M331R
ASISCDRH127M-391R	390	\pm 20	N/A	1	700	0.88	M391R
ASISCDRH127M-471R	470	\pm 20	N/A	1	980	0.79	M471R
ASISCDRH127M-561R	560	\pm 20	N/A	1	1070	0.73	M561R
ASISCDRH127M-681R	680	\pm 20	N/A	1	1460	0.67	M681R
ASISCDRH127M-821R	820	\pm 20	N/A	1	1640	0.60	M821R
ASISCDRH127M-102R	1000	\pm 20	N/A	1	1820	0.55	M102R

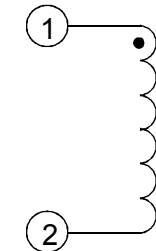
6. Add the tolerance code of inductance by replacing "X" of the part number by: M= \pm 20%, N= $+40\%/-20\%$.

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

8. Rated D.C. current indicates the value of the current when the inductance is over 75% of the nominal value or D.C. current when temperature rising $\Delta T=40^\circ\text{C}$ at D.C. superposition, whichever is lower.

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



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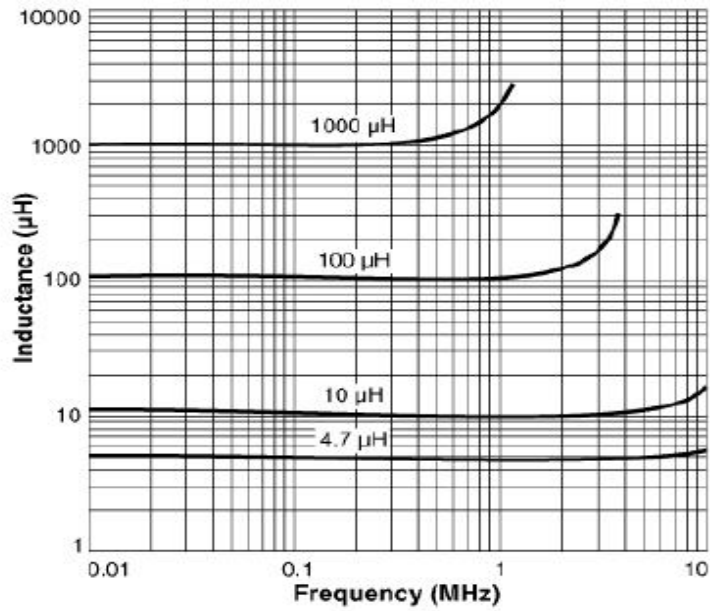
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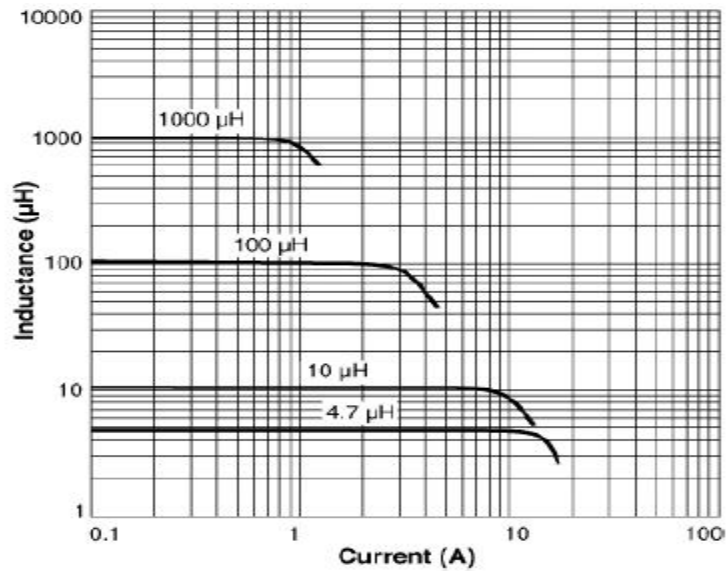
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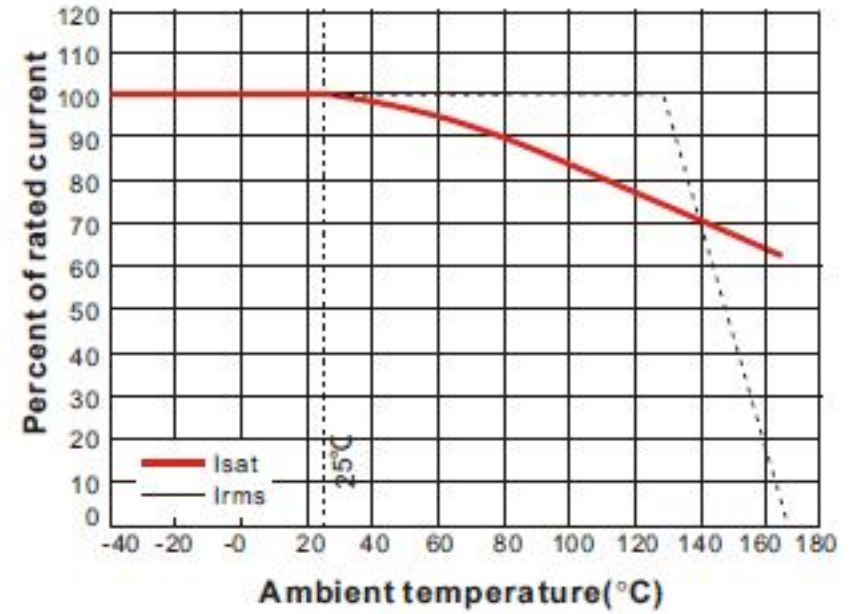
Typical L vs Frequency



Typical L vs Current



Current Derating



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