




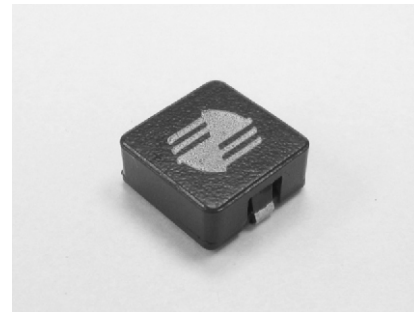


-  Used in high power application
-  Large permissible DC current
-  Ideal for computers and portable power devices, DC-DC converters, energy storage applications and Input-Output filter applications
-  Operating temperature -40 C to +125 C
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ²		Rated Inductance (uH)	DCR (m Ω) Max	Isat ³ 20% rolloff (A)	Isat ⁴ 30% rolloff (A)	I _{rms} ⁵ (A)	Marking (XXXY)
	Nominal (uH)	Tolerances (%)						
RIS1375A-R20LF	0.218	±15	0.20	0.50	65	95	46.7	R20L
RIS1375A-R47LF	0.544	±15	0.47	0.88	40	57	33.7	R47L
RIS1375A-1R0LF	1.04	±15	1.0	1.87	28	41	23.7	1R0L
RIS1375A-1R5LF	1.70	±15	1.5	2.27	22	32	21.0	1R5L
RIS1375A-2R2LF	2.53	±15	2.2	3.37	18	26	17.2	2R2L
RIS1375A-3R3LF	3.52	±15	3.3	4.87	15	22	14.3	3R3L
RIS1375A-4R3LF	4.67	±15	4.3	5.90	13.2	19.1	13.0	4R3L
RIS1375A-6R8LF	7.45	±15	6.8	9.40	11.4	15.1	10.3	6R8L
RIS1375A-100LF	10.9	±15	10.0	14.0	8.6	12.5	8.50	100L
RIS1375A-220LF	22.4	±15	22.0	25.7	6.0	8.7	6.30	220L
RIS1375A-330LF	34.5	±15	33.0	48.8	4.8	7.0	4.42	330L
RIS1375A-470LF	49.2	±15	47.0	72.3	3.9	5.7	3.65	470L

Notes:

1. Ordering Information: RIS1375A - bbbaFc.

RIS1375A = Product Type.

a = Tolerance of Inductance (L = ±15%).

bbb = Rated inductance value in uH (i.e. R47 = 0.47uH; 2R2 = 2.2uH; 220 = 22.0 uH).

F = Internal Control Code.

c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

2. Inductance is tested at 0.1V_{rms}, 100kHz .

3. Saturation current, Isat, indicates the value of DC current when the inductance is 20% (typical) lower than its initial value at an ambient temperature of 25°C.

4. Saturation current, Isat, indicates the value of DC current when the inductance is 30% (typical) lower than its initial value at an ambient temperature of 25°C.

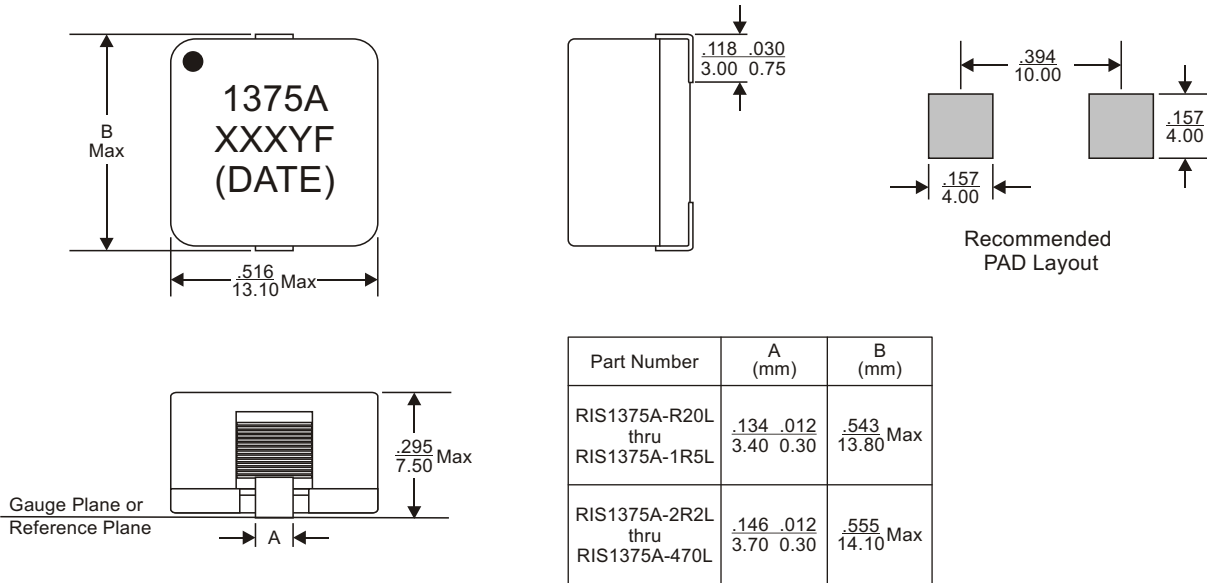
5. Heating current, I_{rms}, is the current required to raise the component temperature by approximately 40°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.

6. Operating temperature range: -40°C to +125°C.

7. 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.



MECHANICAL DIMENSIONS

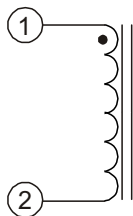


Notes:

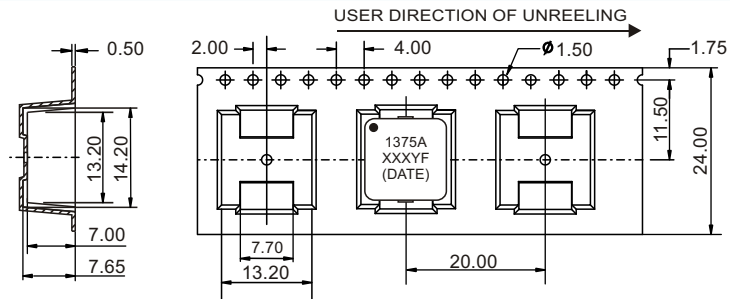
- 8. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 9. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

Weight (in gram)	: 5.5 typ.
Tape & Reel	: 350 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER

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