




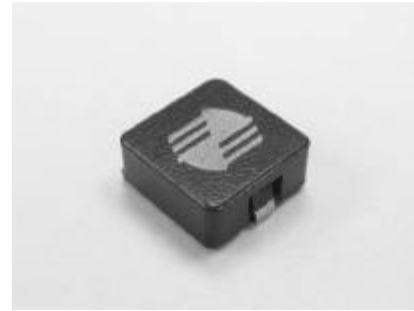




-  Used in high power application
-  Large permissible DC current
-  Ideal for computers and portable power devices, DC-DC converters, energy storage applications and Input-Output filter applications
-  Operating temperature -45°C to +95°C
-  RoHS compliant versions are available



**ELECTRICAL SPECIFICATION @ 25°C**

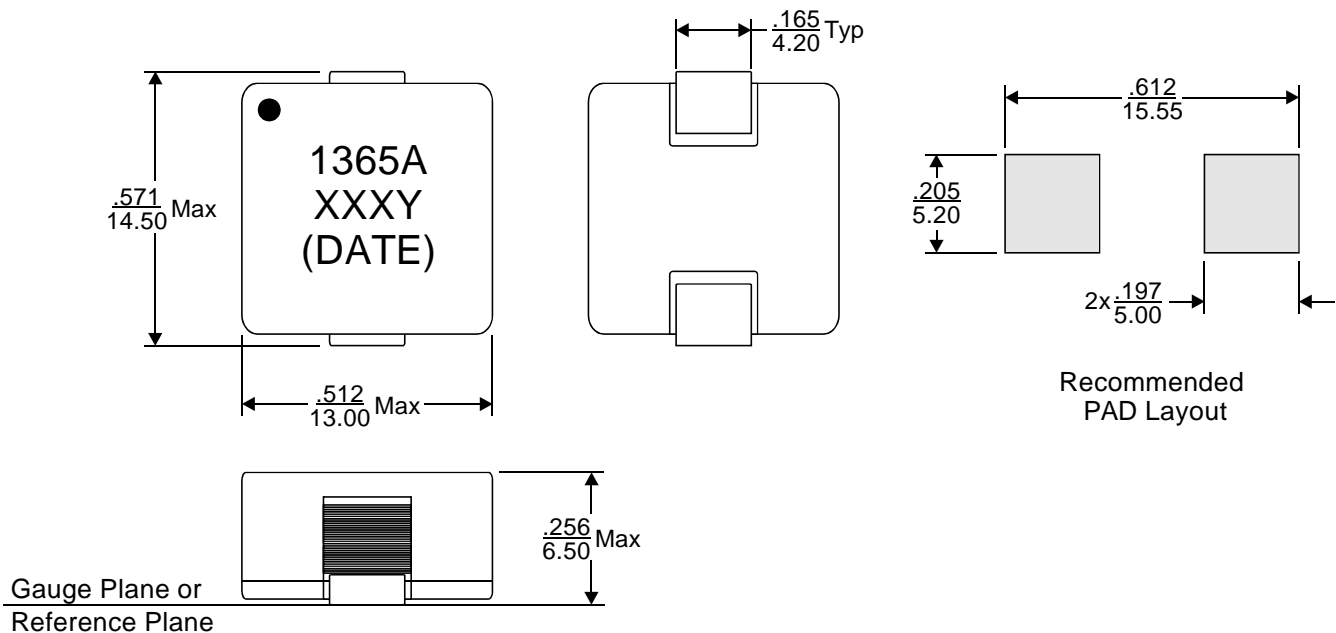
Part Number	RoHS Part Number	Inductance @ Irated (μH Typ)	Irated (A)	DCR (mΩ)		Inductance <sup>1</sup> @ 0Adc (μH ± 20%)	Saturation Current <sup>2</sup> Isat(A)	Heating Current <sup>3</sup> Idc(A)	Marking (XXXY)
				Typ	Max				
RIS1365A-451M	RIS1365A-451MF	0.34	45	0.75	0.80	0.45	48	45	451M
RIS1365A-801M	RIS1365A-801MF	0.68	35	1.20	1.30	0.80	38	35	801M
RIS1365A-142M	RIS1365A-142MF	1.16	27	2.00	2.10	1.40	28	27	142M
RIS1365A-202M	RIS1365A-202MF	1.66	23	2.80	2.90	2.00	24	23	202M
RIS1365A-282M	RIS1365A-282MF	2.32	19	4.10	4.20	2.80	20	19	282M

**Notes:**

- Inductance is tested at 100kHz, 0.1Vrms, 0Adc.
- Saturation current, Isat, is the current at which the inductance of the component drops by 20% typical at an ambient temperature of 25°C.
- Heating current, Idc, is the DC current required to raise the part temperature by approximately 40°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.
- 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

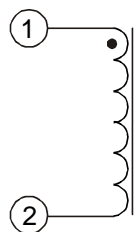


Notes:

5. All dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in mm.
6. Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$ .
7. For available RoHS part number, the part will be marked with "XXXYF", instead of "XXXY".

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

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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