

-  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 versions are available



ELECTRICAL SPECIFICATION @ 25°C

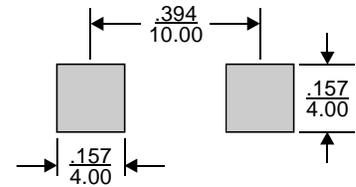
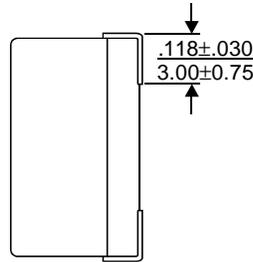
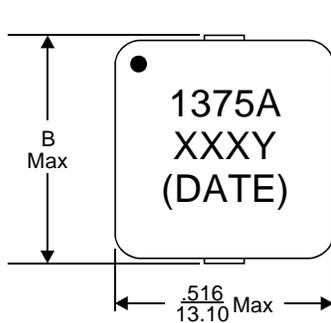
Part Number	RoHS Part Number	Inductance ¹ @0Adc ($\mu\text{H} \pm 15\%$)	Rated Inductance (μH)	DCR (m Ω Max)	Saturation ² Current Isat(A) 20% rolloff	Saturation ³ Current Isat(A) 30% rolloff	Heating ⁴ Current I _{rms} (A)	Volts- μSec (V μS Typ)	Marking (XXXX)
RIS1375A-R20L	RIS1375A-R20LF	0.218	0.20	0.50	65	95	46.7	2.87	R20L
RIS1375A-R47L	RIS1375A-R47LF	0.544	0.47	0.88	40	57	33.7	4.78	R47L
RIS1375A-1R0L	RIS1375A-1R0LF	1.04	1.00	1.87	28	41	23.7	6.7	1R0L
RIS1375A-1R5L	RIS1375A-1R5LF	1.70	1.50	2.27	22	32	21.0	8.46	1R5L
RIS1375A-2R2L	RIS1375A-2R2LF	2.53	2.20	3.37	18	26	17.2	10.4	2R2L
RIS1375A-3R3L	RIS1375A-3R3LF	3.52	3.30	4.87	15	22	14.3	12.4	3R3L
RIS1375A-4R3L	RIS1375A-4R3LF	4.67	4.30	5.90	13.2	19.1	13.0	14.4	4R3L
RIS1375A-6R8L	RIS1375A-6R8LF	7.45	6.80	9.40	11.4	15.1	10.3	18.1	6R8L
RIS1375A-100L	RIS1375A-100LF	10.90	10.00	14.00	8.6	12.5	8.5	22.0	100L
RIS1375A-220L	RIS1375A-220LF	22.40	22.00	25.70	6.0	8.7	6.3	31.5	220L
RIS1375A-330L	RIS1375A-330LF	34.50	33.00	48.80	4.8	7.0	4.42	37.3	330L
RIS1375A-470L	RIS1375A-470LF	49.20	47.00	72.30	3.9	5.7	3.65	44.8	470L

Notes:

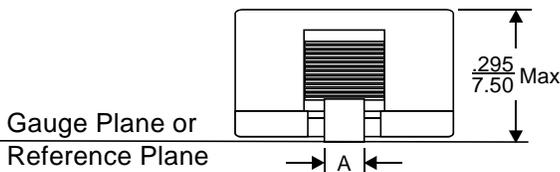
1. Inductance is tested at 100kHz, 1.0Vrms, 0Adc.
2. Saturation current, Isat, is the DC current at which the inductance of the component drops by 20% typical at ambient temperature of 25°C.
3. Saturation current, Isat, is the DC current at which the inductance of the component drops by 30% typical at ambient temperature of 25°C.
4. Heating current, I_{rms}, is the current required to raise the part temperature by approximately 40°C.
5. 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



Recommended
PAD Layout



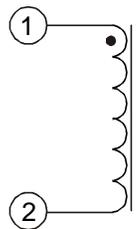
Part Number	A (mm)	B (mm)
RIS1375A-R20L thru RIS1375A-1R5L	$.134 \pm .012$ 3.40±0.30	$.543$ 13.80 Max
RIS1375A-2R2L thru RIS1375A-470L	$.146 \pm .012$ 3.70±0.30	$.555$ 14.10 Max

Notes:

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

Weight (in gram)	:	3.5 typ.
Tape & Reel	:	350 / reel

SCHEMATICS



FOR MORE INFORMATION, PLEASE CONTACT

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