





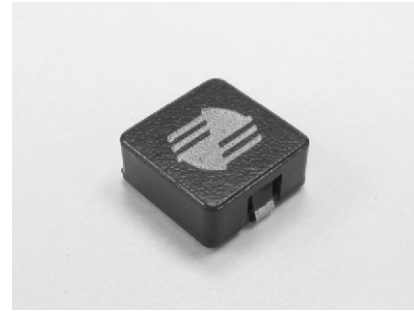


-  Low profile SMD type.
-  High energy storage and low DCR.
-  Magnetically shielded, suitable for high density mounting.
-  Ideal for power source circuits, DC-DC convert, DC-AC Inverters inductor and input-Output filter application.
-  Operating temperature -40 C to +125 C
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ² (uH)±20%	Inductance at Isat (uH) Typ	DCR (m Ω) Max	Isat ³ (A)	Irms ⁴ (A)	Marking (XXXY)
	M					
RIS7030A-0R1MF	0.10	0.08	2.5	30	20	0R1M
RIS7030A-0R2MF	0.20	0.16	3.4	18	16	0R2M
RIS7030A-R47MF	0.47	0.40	4.1	12	14	R47M
RIS7030A-R68MF	0.68	0.60	5.3	10	12	R68M
RIS7030A-1R0MF	1.00	0.90	10	8.5	7	1R0M

Notes:

1. Ordering Information: RIS7030A - bbbaFc.

RIS7030A = Product Type.

a = Tolerance of Inductance (L = ± 20%).

bbb = Rated inductance value in uH (i.e. R47 = 0.47uH; 1R0 = 1.0uH).

F = Internal Control Code.

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

2. Inductance is tested at 1Vrms, 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.

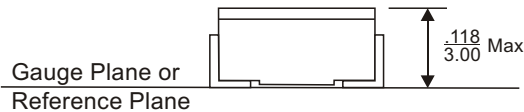
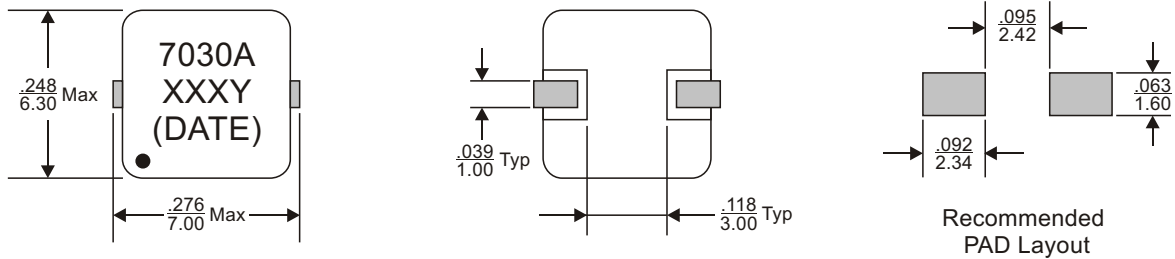
4. Heating current, Irms, is the current required to raise the component temperature by approximately 40°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.

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

6. 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

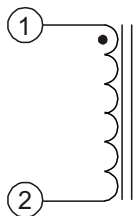


Notes:

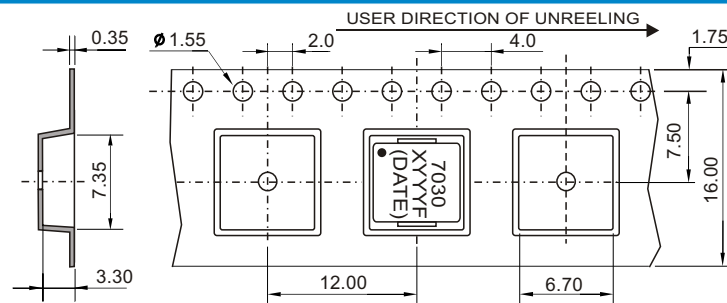
- 7. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 8. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

Weight (in gram)	: 1.0 typ.
Tape & Reel	: 1500 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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