




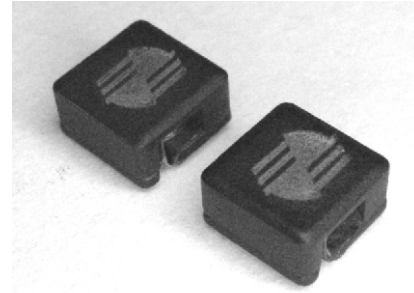




-  Used in high power application
-  Large permissible DC current
-  Ideal for computers and portable power devices, DC-DC converters, energy storage applications and Input-Output filter applications
-  Operating temperature -40 C to +1 C
-  RoHS compliant



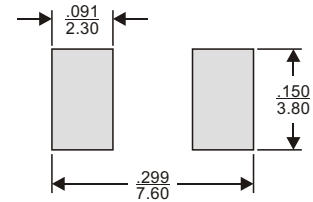
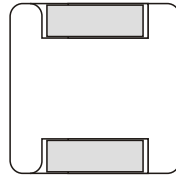
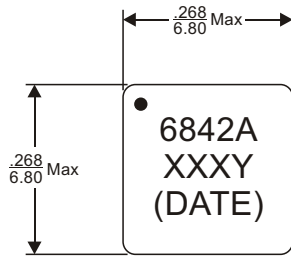
ELECTRICAL SPECIFICATION @ 25°C									
Part Number	Inductance @0Adc ²		Inductance ³ @ Irated (uH Typ)	Irated ⁴ (A)	DCR (m Ω)		Saturation Current Isat (A) ⁵	Heating Current Idc (A) ⁶	Marking (XXXY)
	Nominal (uH)	Tolerances (%)			Typ	Max			
	RIS6842A-401PF	0.40	±25	0.32			17.5	3.0	3.2
RIS6842A-601PF	0.60	±25	0.48	15	4.5	4.8	21	15	601P
RIS6842A-102PF	1.00	±25	0.80	12	6.6	7.2	17	12	102P
RIS6842A-182PF	1.80	±25	1.44	8.0	15.6	16.0	13	8.0	182P
RIS6842A-232PF	2.30	±25	1.84	7.5	17.5	18.0	11.5	7.5	232P
RIS6842A-332PF	3.30	±25	2.64	5.8	26.6	27.5	9.5	5.8	332P
RIS6842A-472PF	4.70	±25	3.76	4.5	36.6	38.0	8	4.5	472P

Notes:

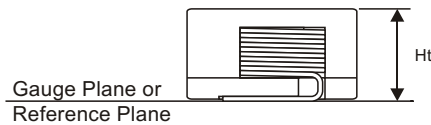
1. Ordering Information: RIS6842A - bbbaFc.
 RIS6842A = Product Type.
 a = Tolerance of Inductance (P = ± 25%).
 bbb = Inductance value in uH (i.e. 401 = 0.40uH; 232 = 2.30uH).
 F = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 0.1Vrms, 100kHz @ 0Adc.
3. Inductance at Irated is a typical inductance value for the component taken at rated current.
4. The rated current listed is the lower of the saturation current @ 25°C or the heating current.
5. 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.
6. Heating current, Idc, 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.
7. Operating temperature range: -40°C to +125°C.
8. 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



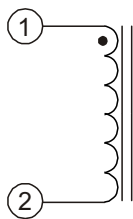
E&E Part Number	Ht (in./mm Max)
RIS6842A-401PF	.165/4.20
RIS6842A-601PF	.165/4.20
RIS6842A-102PF	.165/4.20
RIS6842A-182PF	.157/4.00
RIS6842A-232PF	.157/4.00
RIS6842A-332PF	.157/4.00
RIS6842A-472PF	.157/4.00

Notes:

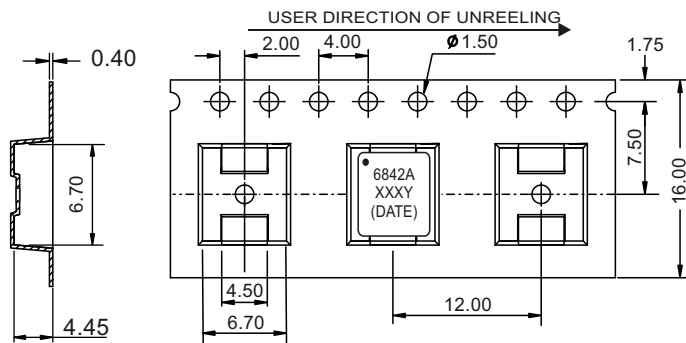
- 9. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- 10. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 1.0 typ.
Tape & Reel	: 1100 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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