






-  Suitable for DC/DC converters, industrial products and handheld devices.
-  Unshielded and small footprint with high energy storage and low resistance
-  Superior performance and self-leaded design for surface mounting applications
-  Operating temperature -40 C to +125 C
-  RoHS compliant



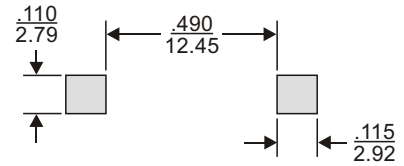
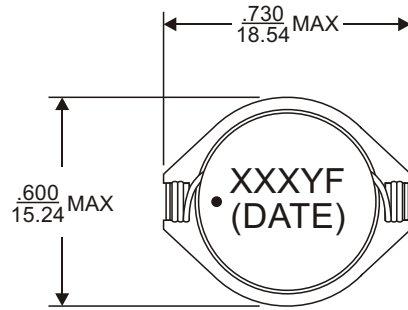
ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ² @0A _{dc} (H)	Inductance	Inductance ³ @ Irated	Irated ⁴ (A)	DCR (m Ω) Max	Saturation ⁵ Current Isat(A)	Heating ⁶ Current I _{dc} (A)	Marking (XXX _Y)
		Tolerances (%) M	(H Typ.)					
UIS5015-681MF	0.68	±20	0.68	20.0	2.0	64	20.0	681M
UIS5015-122MF	1.2	±20	1.2	17.7	2.6	48	17.7	122M
UIS5015-222MF	2.2	±20	2.2	14.7	3.7	35	14.7	222M
UIS5015-332MF	3.3	±20	3.3	13.7	4.3	29	13.7	332M
UIS5015-392MF	3.9	±20	3.9	11.7	6.7	26	11.7	392M
UIS5015-472MF	4.7	±20	4.7	10.8	6.9	24	10.8	472M
UIS5015-682MF	6.8	±20	6.8	9.0	9.8	20	9.0	682M
UIS5015-103MF	10	±20	10	7.1	15	16	7.1	103M
UIS5015-183MF	18	±20	18	6.0	25	13	6.0	183M
UIS5015-223MF	22	±20	22	5.4	27	11	5.4	223M
UIS5015-333MF	33	±20	33	4.4	42	9	4.4	333M
UIS5015-403MF	40	±20	40	4.0	50	8	4.0	403M
UIS5015-473MF	47	±20	47	3.5	55	7	3.5	473M
UIS5015-104MF	100	±20	100	2.3	153	5	2.3	104M
UIS5015-154MF	150	±20	150	2	200	4	2	154M

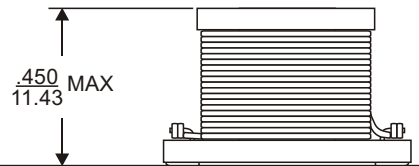
Notes:

1. Ordering Information: UIS5015 - bbbaFc.
 UIS5015 = Product Type.
 a = Tolerance of Inductance (M = ±20%).
 bbb = Inductance value in uH (i.e. 681 = 0.68uH; 682 = 6.8uH; 473 = 47uH; 154 = 150uH)
 F = Internal Control Code.
 c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 100kHz, 0.1V_{rms}.
3. Inductance at Irated is a typical inductance value of the inductor at rated current.
4. The rated current listed is the lower of the saturation current at 25°C or the heating current.
5. Saturation current, Isat, is the current at which the inductance of the component drops by 20% maximum at an ambient temperature of 25 C.
6. 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.
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



Recommended Pad Layout



Reference or Gauge Plane

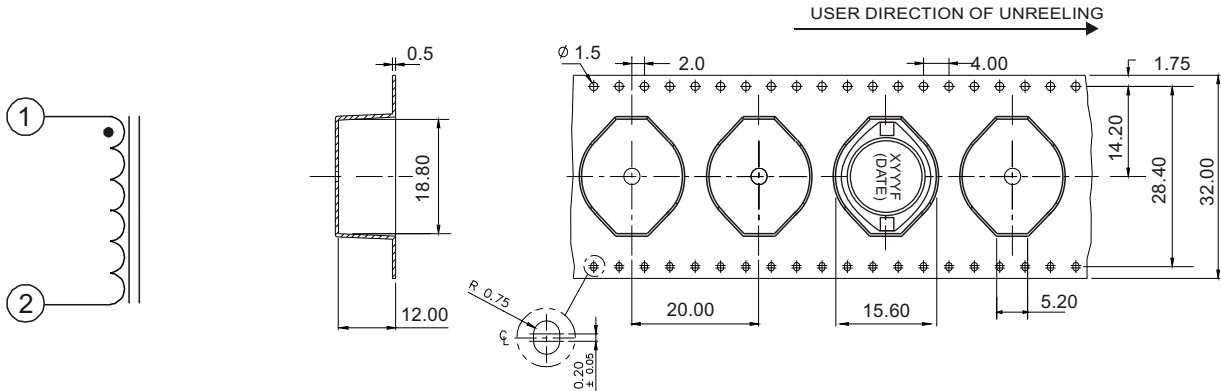
Notes:

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

Weight (in gram)	: 6.0 typ.
Tape & Reel	: 200 / reel

SCHEMATIC

PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER
1/F., Harbour View 1, No.12 Science Park East Avenue,
Phase II, Hong Kong Science Park, Shatin, N.T.
Hong Kong
Tel: (852) 2954 3333 Fax: (852) 2954 3304
Email: eempl@eleceltek.com
Website: <http://www.eleceltek.com> / www.eemagnetic.com

Information herein is for reference only and subject to change without notice. It does not constitute any representation, warranty or commitment of the company in respect of the products in any aspect. All logos, brands and product names mentioned herein are trademarks or registered trademarks of their respective owners. The company does not assume any liability arising out of the application or use of any product or circuit described herein. Copyrights 2009, E & E Magnetic Products Limited.