








-  Suitable for notebook computers and other portable handheld devices
-  Unshielded and low profile with high energy capability and low resistance
-  High performance and self-leaded design for pick and place mounting process
-  Inductance range from 10 to 470 micro H
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance L (uH±10%)	Test ² Frequency (Hz)	DCR (m Ω) Max	Rated DC ³ Current (A)	SRF (MHz) Typ	Marking (XYYY)
UISC75K-100F	10	1M	70	2.3	28	K100
UISC75K-120F	12	1M	80	2.0	23	K120
UISC75K-150F	15	1M	90	1.8	22	K150
UISC75K-180F	18	1M	100	1.6	20	K180
UISC75K-220F	22	1M	110	1.5	17	K220
UISC75K-270F	27	1M	120	1.3	15	K270
UISC75K-330F	33	1M	130	1.2	15	K330
UISC75K-390F	39	1M	160	1.1	14	K390
UISC75K-470F	47	1M	180	1.1	13	K470
UISC75K-560F	56	1M	240	0.94	11	K560
UISC75K-680F	68	1M	280	0.85	11	K680
UISC75K-820F	82	1M	370	0.78	10	K820
UISC75K-101F	100	1k	430	0.72	9.2	K101
UISC75K-121F	120	1k	470	0.66	7.7	K121
UISC75K-151F	150	1k	640	0.58	6.1	K151
UISC75K-181F	180	1k	710	0.51	5.8	K181
UISC75K-221F	220	1k	960	0.49	5.2	K221
UISC75K-271F	270	1k	1110	0.42	4.8	K271
UISC75K-331F	330	1k	1260	0.40	4.3	K331
UISC75K-391F	390	1k	1770	0.36	4.3	K391
UISC75K-471F	470	1k	1960	0.34	3.8	K471

Notes: 1. Ordering Information: UISC75a - bbbFc.

UISC75 = Product Type.

a = Tolerance of Inductance (K = ±10%).

bbb = Inductance value in uH (i.e. 180 = 18uH; 181 = 180uH).

F = Internal Control Code.

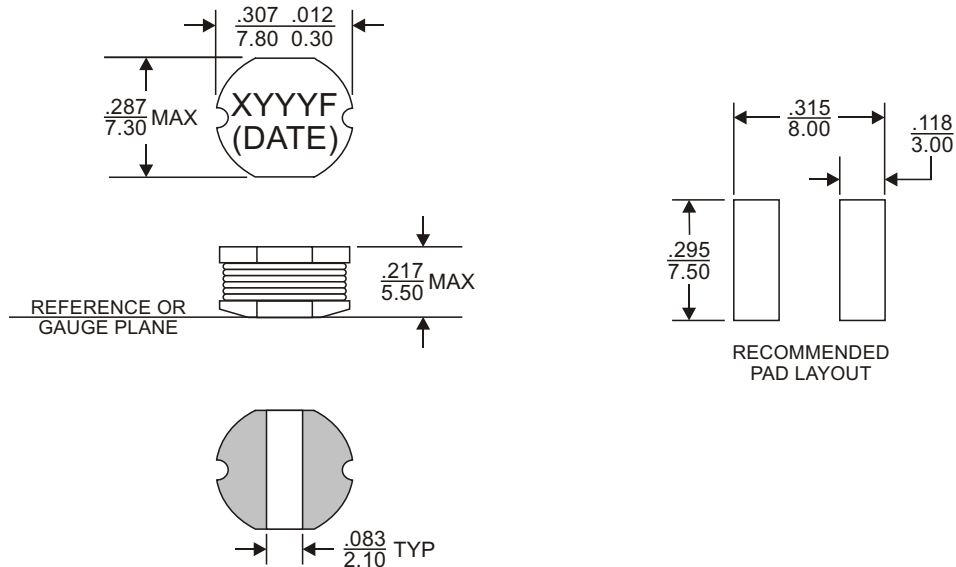
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

2. Test frequency is specified as the frequency for measuring the inductance.

3. Rated D.C. current indicates the current when the inductance is 10% lower than its initial value at D.C. superposition, or the current when at T=40°C, whichever is lower.

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

MECHANICAL DIMENSIONS

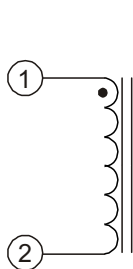


Notes:

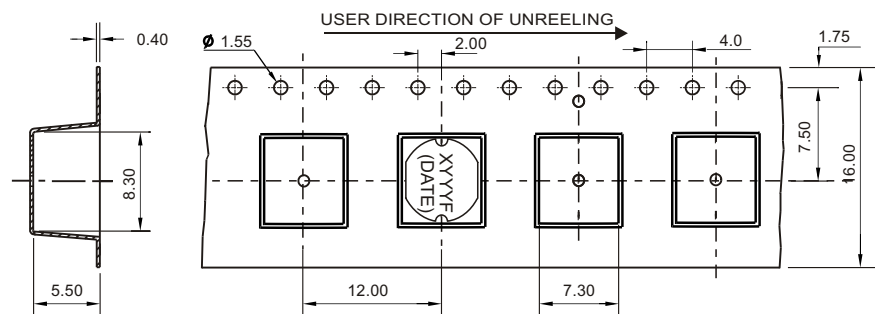
5. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
7. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 0.9 typ.
Tape & Reel	: 900 / 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

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