






-  Suitable for notebook computers and other portable handheld devices
-  Unshielded and small in size with high energy storage
-  High performance and self-leaded design for surface mounting applications
-  Inductance range from 10 to 820 micro H
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ² L (uH)	Inductance Tolerance (%)	DCR () Max	Rated DC ³ Current (A)	Marking (YYYY)
UISC105M-100F	10	20	0.06	2.60	M100
UISC105M-120F	12	20	0.07	2.45	M120
UISC105M-150F	15	20	0.08	2.27	M150
UISC105M-180F	18	20	0.09	2.15	M180
UISC105M-220F	22	20	0.10	1.95	M220
UISC105M-270F	27	20	0.11	1.76	M270
UISC105M-330F	33	20	0.12	1.50	M330
UISC105M-390F	39	20	0.14	1.37	M390
UISC105K-470F	47	10	0.17	1.28	K470
UISC105K-560F	56	10	0.19	1.17	K560
UISC105K-680F	68	10	0.22	1.11	K680
UISC105K-820F	82	10	0.25	1.00	K820
UISC105K-101F	100	10	0.35	0.97	K101
UISC105K-121F	120	10	0.40	0.89	K121
UISC105K-151F	150	10	0.47	0.78	K151
UISC105K-181F	180	10	0.63	0.72	K181
UISC105K-221F	220	10	0.73	0.66	K221
UISC105K-271F	270	10	0.97	0.57	K271
UISC105K-331F	330	10	1.15	0.52	K331
UISC105K-391F	390	10	1.30	0.48	K391
UISC105K-471F	470	10	1.48	0.42	K471
UISC105K-561F	560	10	1.90	0.33	K561
UISC105K-681F	680	10	2.25	0.28	K681
UISC105K-821F	820	10	2.55	0.24	K821

Notes: 1. Ordering Information: UISC105a - bbbFc.

UISC105 = Product Type.

a = Tolerance of Inductance (M = $\pm 20\%$; K = $\pm 10\%$).

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).

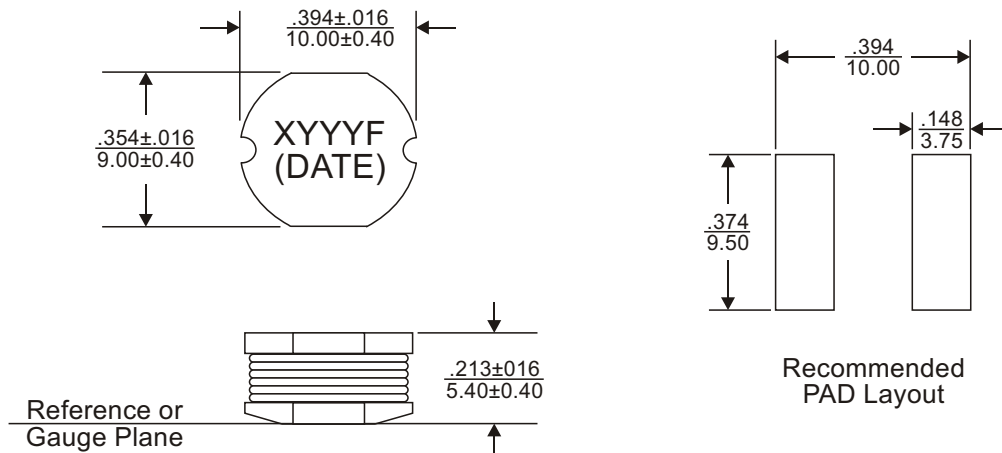
2. Inductance is tested at 1kHz, 0.1Vrms.

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

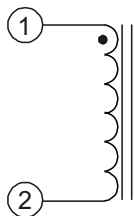


Notes:

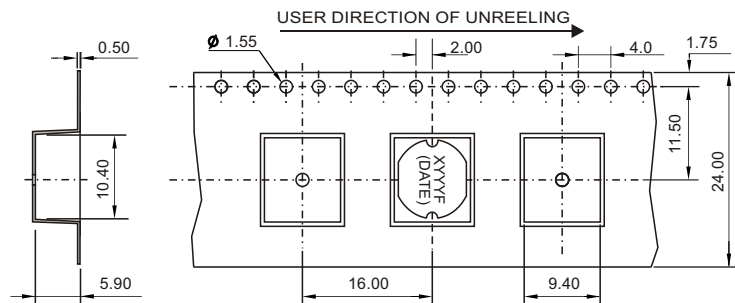
- The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature.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

Weight (in gram)	: 1.7 typ.
Tape & Reel	: 600 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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