






-  Suitable for DC/DC conversions in notebook computers, PDAs and plantops
-  Low DCR and Low profile
-  Unshielded and self-leaded design for pick and place handling
-  Open construction provides stable inductance for increasing currents.
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance ² L (H)	Inductance Tolerance(%)	Test frequency (kHz)	DCR () Max	Isat ³ (A)	I _{rms} (A)	SRF (MHz) Typ	Marking (XXXX)
		M						
UIS1704M-122R	1.2	± 20	100	0.08	2.1	3.6	190	M122
UIS1704M-152R	1.5	± 20	100	0.10	1.9	2.8	140	M152
UIS1704M-222R	2.2	± 20	100	0.12	1.6	2.4	115	M222
UIS1704M-332R	3.3	± 20	100	0.16	1.3	2.0	90	M332
UIS1704M-472R	4.7	± 20	100	0.20	1.1	1.7	88	M472
UIS1704M-682R	6.8	± 20	100	0.32	0.90	1.2	66	M682
UIS1704M-103R	10	± 20	100	0.41	0.80	1.1	55	M103
UIS1704M-153R	15	± 20	100	0.55	0.65	0.90	42	M153
UIS1704M-223R	22	± 20	100	0.85	0.50	0.83	38	M223
UIS1704M-333R	33	± 20	100	1.30	0.40	0.62	29	M333
UIS1704M-473R	47	± 20	100	1.80	0.35	0.52	22	M473
UIS1704M-683R	68	± 20	100	2.50	0.30	0.35	18	M683
UIS1704M-104R	100	± 20	100	3.50	0.25	0.27	14	M104
UIS1704M-154R	150	± 20	100	5.00	0.18	0.24	12	M154
UIS1704M-224R	220	± 20	100	7.00	0.16	0.23	10	M224
UIS1704M-334R	330	± 20	100	15.00	0.13	0.13	8	M334

Notes:

1. Ordering Information: UIS1704a - bbbRc.

UIS1704 = Product Type.

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

bbb = Inductance value in uH (i.e. 152 = 1.5uH; 153 = 15uH; 154 = 150uH).

R = Internal Control Code.

c = Packaging Code (U = Tape & Reel Packaging in 7 inch).

2. Test frequency is specified as the frequency for measuring the inductance at 0.1V_{rms}.

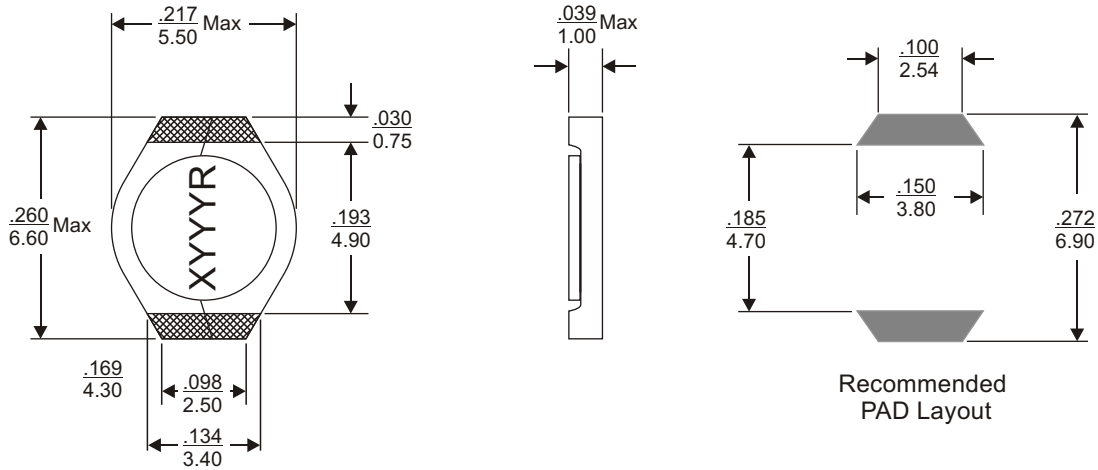
3. Isat is the DC current at which the inductance drops 10% typical from its value without current.

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

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.



MECHANICAL DIMENSIONS

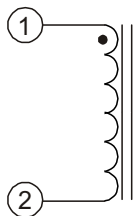


Notes:

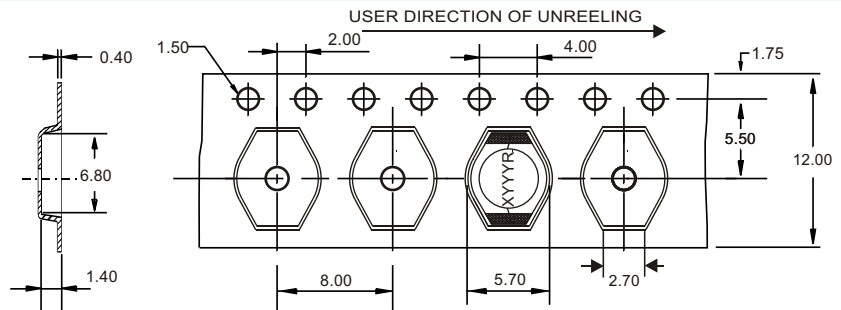
- 6. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in inches.
- 7. Unless otherwise specified, all tolerances are ± 0.010 / ± 0.25 .

Weight (in gram)	: 0.1 typ.
Tape & Reel	: 1000 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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