




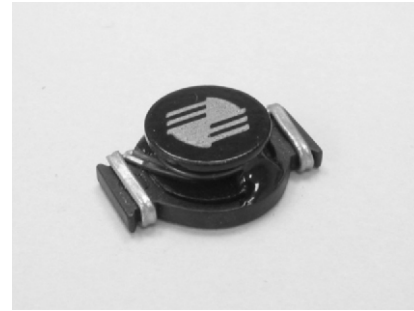


-  Suitable for DC/DC conversions in notebook computers, or other portable handheld devices.
-  High performance and small size for surface mounting applications
-  Unshielded and self-leaded design for pick and place handling
-  Inductance range from 0.78 to 1000 micro H
-  RoHS compliant



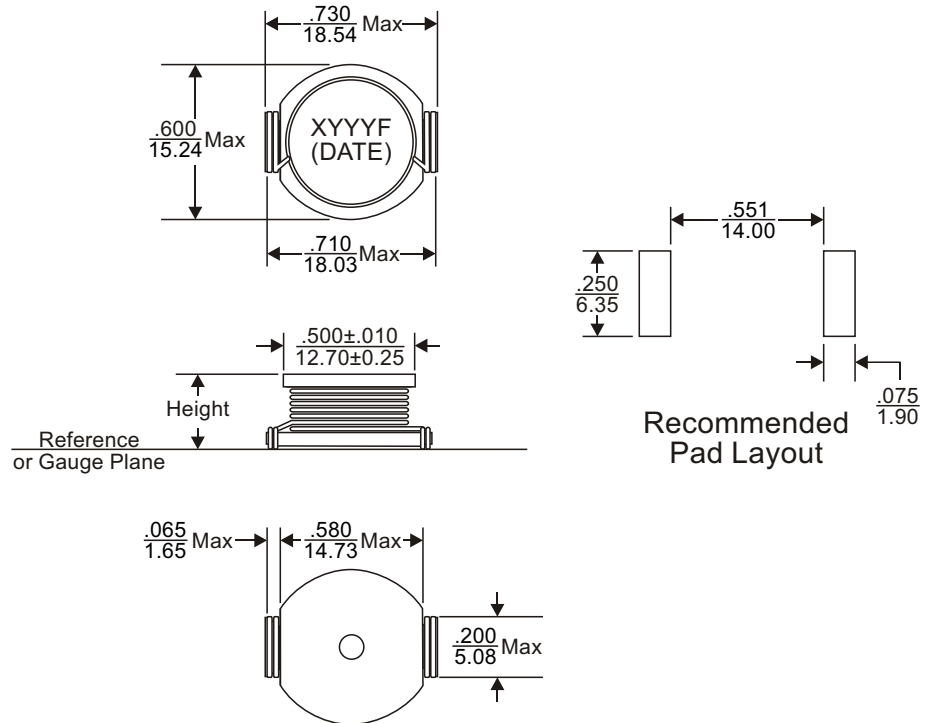
**ELECTRICAL SPECIFICATION @ 25°C**

Part Number	Inductance <sup>2</sup> L (uH ±20%)	DCR (m Ω) Max	SRF (MHz) Typ	Isat <sup>3</sup> (A)	Irms <sup>4</sup> (A)	Marking (XYYY)
UIS5010HCM-781F	0.78	2.6	156	30	15	M781
UIS5010HCM-152F	1.5	4.0	100	25	15	M152
UIS5010HCM-222F	2.2	6.1	75	20	12	M222
UIS5010HCM-332F	3.3	8.6	60	17	10	M332
UIS5010HCM-392F	3.9	10	55	15	9	M392
UIS5010HCM-472F	4.7	14	40	13	8.4	M472
UIS5010HCM-602F	6.0	17	35	12	7.5	M602
UIS5010HCM-782F	7.8	18	35	11	7.5	M782
UIS5010HCM-103F	10	26	28	10	6.0	M103
UIS5010HCM-123F	12	28	26	8.5	5.2	M123
UIS5010HCM-153F	15	32	20	8.0	4.4	M153
UIS5010HCM-223F	22	47	20	7.0	3.5	M223
UIS5010HCM-333F	33	66	15	5.5	3.0	M333
UIS5010HCM-473F	47	86	9	4.5	2.6	M473
UIS5010HCM-683F	68	130	8	3.5	2.3	M683
UIS5010HCM-104F	100	190	7	3.0	1.8	M104
UIS5010HCM-154F	150	250	6	2.6	1.5	M154
UIS5010HCM-224F	220	380	5	2.4	1.2	M224
UIS5010HCM-334F	330	560	4	1.9	1.0	M334
UIS5010HCM-474F	470	850	3	1.4	0.82	M474
UIS5010HCM-684F	680	1100	2.5	1.2	0.72	M684
UIS5010HCM-105F	1000	1800	2	1.0	0.56	M105

- Notes:**
1. Ordering Information: UIS5010HCa - bbbFc.  
UIS5010HC = Product Type.  
a = Tolerance of Inductance (M = ±20%).  
bbb = Inductance value in uH (i.e. 781 = 0.78uH; 152 = 1.5uH; 153 = 15uH; 154 = 150uH; 105 = 1000uH).  
F = Internal Control Code.  
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
  2. Inductance is tested at 100kHz, 0.1Vrms.
  3. DC current at which the inductance drops 10% typical from its value without current.
  4. Average current for a 40°C rise above 25°C ambient.
  5. Operating temperature range: -40°C to +125°C.

**MECHANICAL DIMENSIONS**

E&E Part Number	Height (Max)
For M781 to M153	$\frac{.315}{8.00}$
For M223 to M683	$\frac{.300}{7.62}$
For M104 to M105	$\frac{.280}{7.11}$

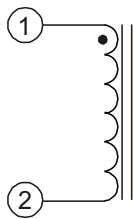


**Notes:**

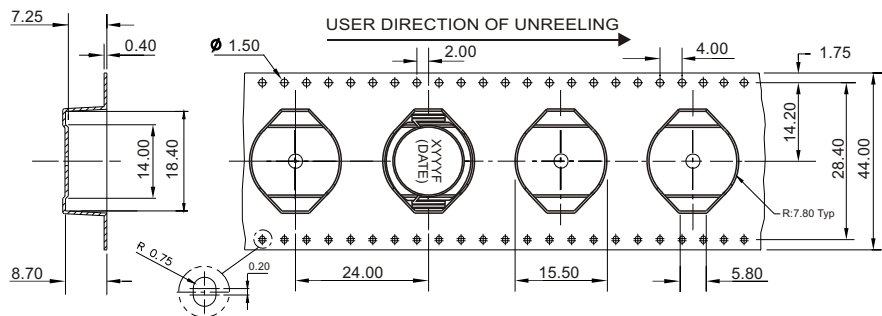
- The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. 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  $\pm \frac{.010}{.25}$ .

Weight (in gram)	: 5 typ.
Tape & Reel	: 250 / reel

**SCHEMATIC**



**PACKAGING**



**FOR MORE INFORMATION, PLEASE CONTACT**

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