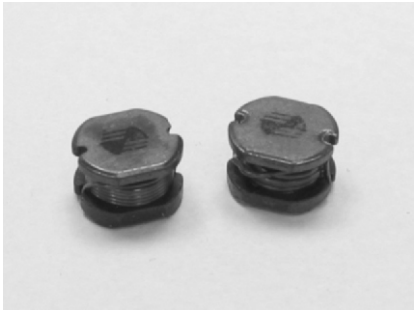
Elec & Eltek依利安達
E & E Magnetic Products Limited

SURFACE MOUNT WIRE WOUND INDUCTOR

Drum Type, UISCD54 Series, Self-Leaded

- Suitable for notebook computers and other portable handheld devices
- Unshielded and low profile with high energy capability and low resistance
- Self-leaded design and flat top for pick and place mounting applications
- Inductance range from 10 to 220 micro H
- RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance L (uH)	Inductance Tolerance (%)	Test[2] Frequency (Hz)	DCR (m) Max	Rated DC[3] Current (A)	Marking (XYYY)
UISCD54M-100F	10	20	1M	100	1.44	M100
UISCD54M-120F	12	20	1M	120	1.40	M120
UISCD54M-150F	15	20	1M	140	1.30	M150
UISCD54M-180F	18	20	1M	150	1.23	M180
UISCD54M-220F	22	20	1M	180	1.11	M220
UISCD54M-270F	27	20	1M	200	0.97	M270
UISCD54L-330F	33	15	1M	230	0.88	L330
UISCD54L-390F	39	15	1M	320	0.80	L390
UISCD54L-470F	47	15	1M	370	0.72	L470
UISCD54K-560F	56	10	1M	420	0.68	K560
UISCD54K-680F	68	10	1M	460	0.61	K680
UISCD54K-820F	82	10	1M	600	0.58	K820
UISCD54K-101F	100	10	1k	700	0.52	K101
UISCD54K-121F	120	10	1k	930	0.48	K121
UISCD54K-151F	150	10	1k	1100	0.40	K151
UISCD54K-181F	180	10	1k	1380	0.38	K181
UISCD54K-221F	220	10	1k	1570	0.35	K221

Notes:

1. Ordering Information: UISCD54a - bbbFc.
   - UISCD54 = Product Type.
   - a = Tolerance of Inductance (M = ±20%; L = ±15%; 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.

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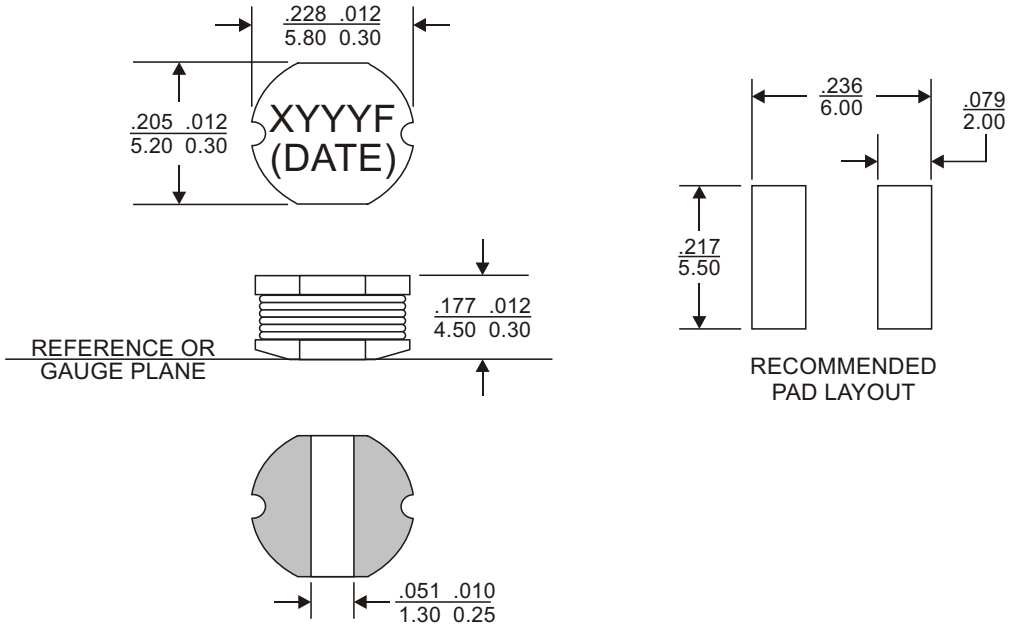
Drum Type, UISCD54 Series, Self-Leaded

MECHANICAL DIMENSIONS

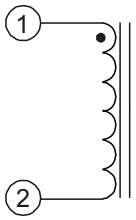


Notes:

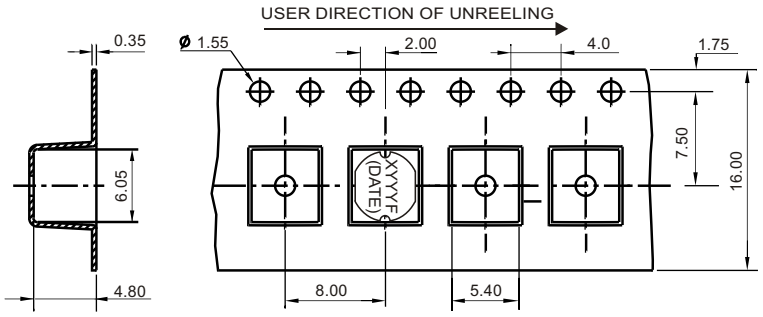
5. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. 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)	:	0.5 typ.
Tape & Reel	:	1500 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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