






-  Suitable for DC/DC conversions in notebook computers, VCR 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 1.83 to 29 micro H
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

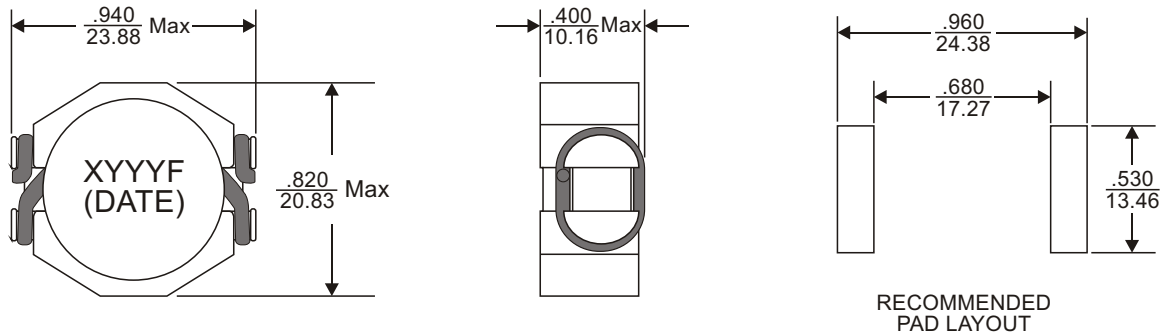
Part Number	Inductance L (uH ±15%)	Inductance ² @Irated (uH Typ.)	Irated ³ (Adc)	DCR (m Ω) Max.	Isat ⁴ (Adc)	Heating ⁵ Current	Marking (XXXX)
UISPB2020L-222F	1.83	1.83	21.8	2.60	40	21.8	L222
UISPB2020L-332F	3.00	3.00	18.3	3.70	35	18.3	L332
UISPB2020L-472F	4.00	4.00	16.8	4.40	28	16.8	L472
UISPB2020L-682F	5.78	5.78	13.6	6.70	25	13.6	L682
UISPB2020L-103F	8.30	8.30	12.6	7.80	20	12.6	L103
UISPB2020L-153F	13.00	13.00	9.7	13.00	18	9.7	L153
UISPB2020L-223F	18.70	18.70	8.1	19.00	13	8.1	L223
UISPB2020L-333F	29.00	29.00	6.5	29.00	10	6.5	L333

Notes:

1. Ordering Information: UISPB2020a - bbbFc.
UISPB2020 = Product Type.
a = Tolerance of Inductance (L = ±15%).
bbb = Inductance value in uH (i.e. 332 = 3.3uH; 153 = 15uH; 333 = 33uH).
F = Internal Control Code.
c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance at Irated is typical inductance value for component taken at rated current.
3. The rated current listed is the lower of Isat or heating current.
4. Inductance drops by 10% typical at saturation current under an ambient temperature of 25°C.
5. The heating current indicates the current required to raise the component temperature by approximately 40°C.
6. Operating temperature range: -40°C to +125°C.
7. 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

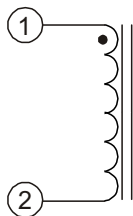


Notes:

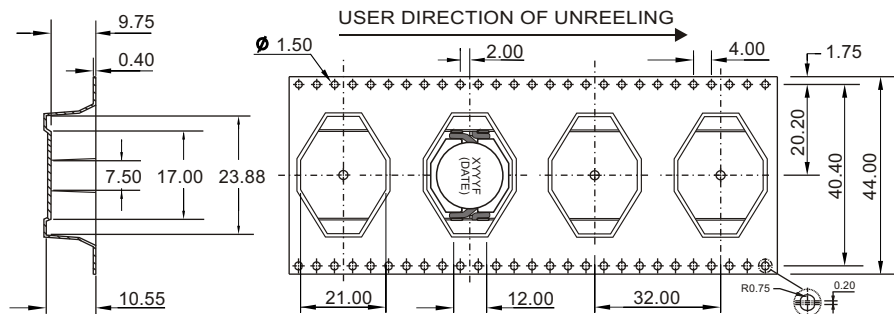
- 8. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in inches.
- 9. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	: 10 typ.
Tape & Reel	: 140 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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