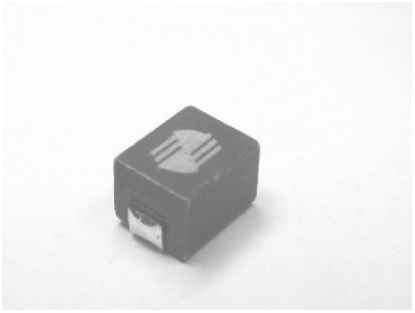
Elec & Eltek依利安達
E & E Magnetic Products Limited

SINGLE PHASE
SMT POWER BEADS INDUCTORS
PBS12160L Series

- Low core loss
- High energy storage and low DCR.
- Magnetically shielded, suitable for high density mounting.
- Ideal for power source circuits, DC-DC convert, DC-AC Inverters inductor and input-Output filter application.
- Custom inductance value or tolerance is available.
- RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Inductance @0Adc (nH 15%)	Inductance @Irated (nH TYP)	Irated [3] (Adc)	DCR [4] (m)	Inductance @Isat (nH TYP)	Saturation Current [5] (A)		Irms [6] (A)	Marking (XXXY)
						25°C	100°C		
PBS12160L-121F	120	120	36	0.48 6.5%	96	84	75	36	121F
PBS12160L-181F	180	180	36	0.48 6.5%	144	64	52	36	181F
PBS12160L-211F	215	215	36	0.48 6.5%	172	53	47	36	211F
PBS12160L-231F	230	230	36	0.48 6.5%	184	47	44	36	231F
PBS12160L-321F	325	282	31	0.48 6.5%	260	34	31	36	321F
PBS12160L-361F	365	315	27	0.48 6.5%	292	30	27	36	361F

Notes:

1. Ordering Information: PBS12160a - bbbFc.
   - PBS12160 = Product Type.
   - a = Tolerance of Inductance (L = ± 15%).
   - bbb = Rated inductance value in nH (i.e. 181 = 180nH; 321 = 320nH).
   - F = Internal Control Code.
   - c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).
2. Inductance is tested at 1Vrms, 100kHz .
3. The rated current as listed is either the saturation current or the heating current depending on which value is lower.
4. The DCR is measured from point a to point b, as shown on the mechanical dimensions.
5. The saturation current, Isat, is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C and 100°C).
6. The heating current is the DC current which causes the temperature of the part to increases by approximately 40°C.
7. Operating temperature range: -40°C to +125°C.
8. 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.

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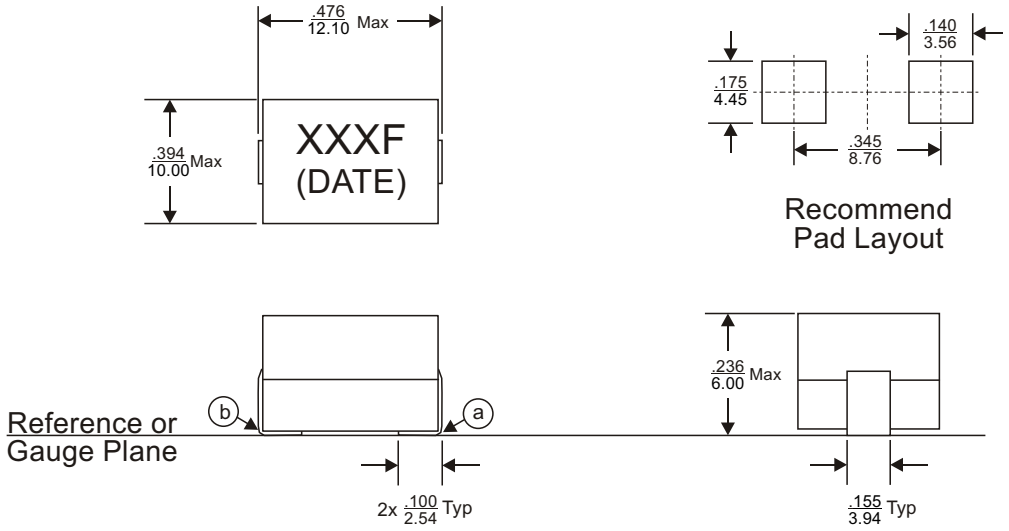
MECHANICAL DIMENSIONS

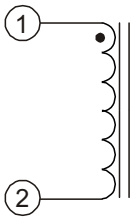


Notes:

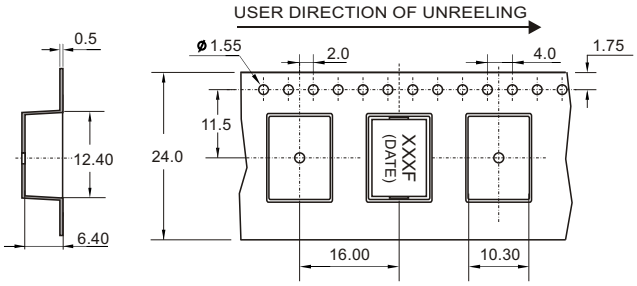
9. All dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
10. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.

Weight (in gram)	:	2.8typ.
Tape & Reel	:	600 / reel

SCHEMATIC



PACKAGING



FOR MORE INFORMATION, PLEASE CONTACT

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