





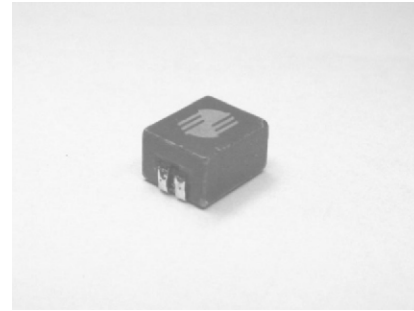


-  Low profile SMD type.
-  High energy storage and low DCR.
-  Magnetically shielded, suitable for high density mounting.
-  Ideal for power source circuits, DC-DC convert, DC-AC Inverters inductor and input-Output filter application.
-  Custom inductance value or tolerance is available.
-  RoHS compliant



ELECTRICAL SPECIFICATION @ 25°C

Part Number	Ls ³ @0Adc (nH 20%)	Ls @ Isat1 (nH)	2*LK ⁴ @0Adc (nH 20%)	2*LK @ Isat2 (nH)	DCR (m ²)	Isat1 ⁵ (Adc)	Isat2 ⁶ (Adc)	Marking (XXXY)
PBD12750M-201F	200	160 Min	120	96 Min	0.175 15%	24	50	201F
PBD12750M-411F	410	375 20%	350	320 10%	0.175 15%	13	30	411F
PBD12750M-481F	480	432 20%	400	360 20%	0.175 15%	13	28	481F
PBD12750M-501F	500	450 20%	450	410 20%	0.175 15%	12	20	501F

Notes:

1. Ordering Information: PBD12750a - bbbFc.

PBD12750 = Product Type.

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

bbb = Rated inductance value in nH (i.e. 411 = 410nH; 501 = 500nH).

F = Internal Control Code.

c = Packaging Code (T = Tape & Reel Packaging in 13 inch Reel).

2. Inductance is tested at 1Vrms, 100kHz .

3. Ls is the inductance of each phase(1-4 @ 2,3 open or 2-3 @ 1,4 open).

4. 2*Lk is two times of leakage inductance (1-2 @ 3,4 short).

5. Isat1 is the DC current which cause the Ls drop to Ls @ Isat1.

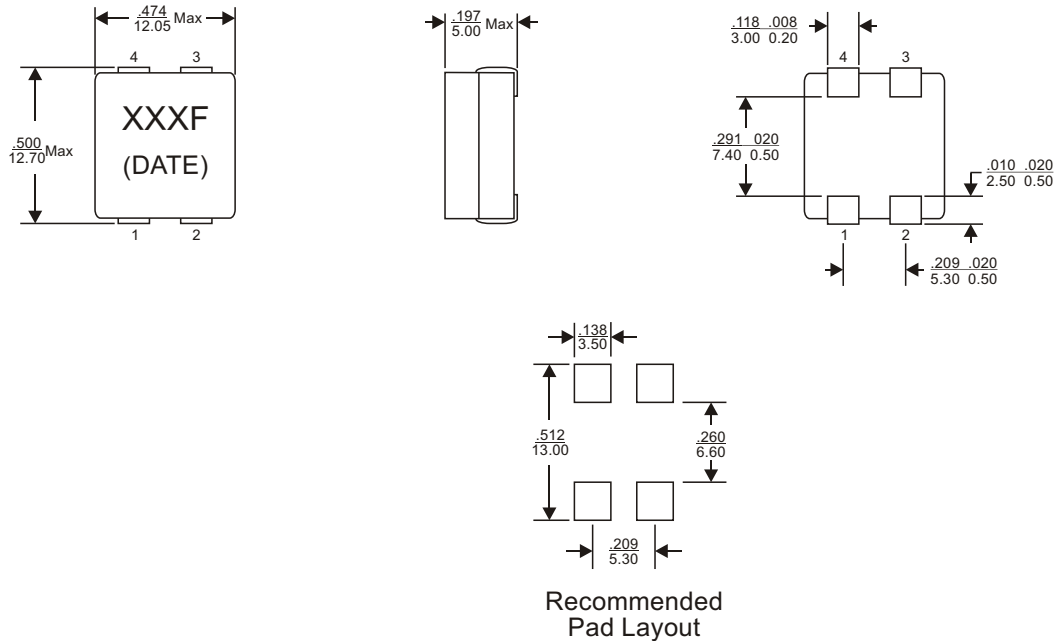
6. Isat2 is the DC current which cause the 2*Lk drop to 2*Lk @ Isat2.

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.



MECHANICAL DIMENSIONS

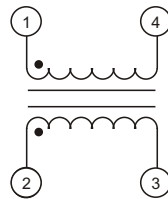


Notes:

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

Weight (in gram)	:	3.0typ.
Tape & Reel	:	650 / reel

SCHEMATIC



FOR MORE INFORMATION, PLEASE CONTACT

HEADQUARTER

1/F., Harbour View 1, No.12 Science Park East Avenue,
Phase II, Hong Kong Science Park, Shatin, N.T.
Hong Kong

Tel: (852) 2954 3333 Fax: (852) 2954 3304

Email: eempl@eleceltek.com

Website: <http://www.eleceltek.com> / www.eemagnetic.com

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1/F., Harbour View 1, No.12 Science Park East Avenue, Phase II, Hong Kong Science Park, Shatin, N.T. Hong Kong

Tel: (852) 2954 3333 • Fax: (852) 2954 3304