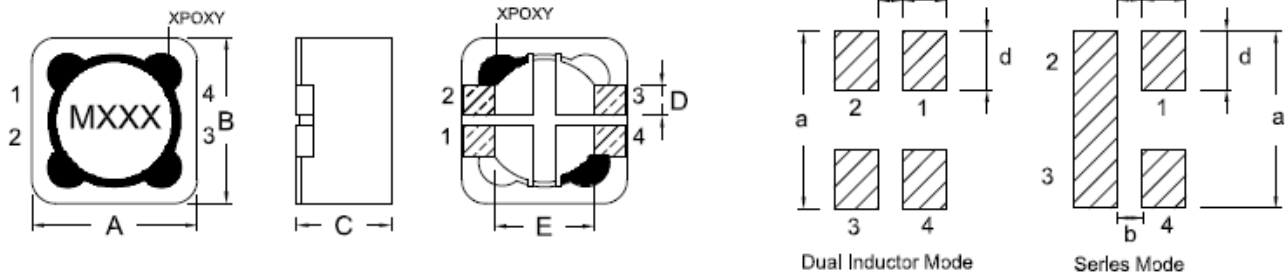
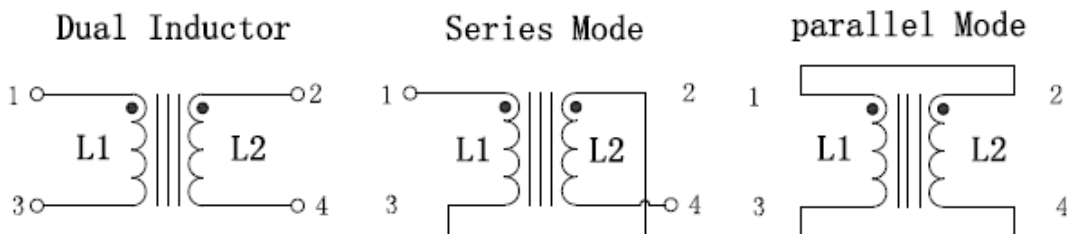


1. External Dimensions (Unit:m/m)



Type	A	B	C	D	E	a	b	c	d	Q'TY/Reel
APW12M80	12.5Max	12.5Max	8.0Max	2.0Ref	8.0Ref	13.8Ref	0.5Ref	3.85Ref	2.5Ref	350

2. Schematics



3. Part Number Code

APW 12 M 80 LC M 100
A B C D E F G

A: Series Name Power Inductors
B: Dimensions(mm) 12: 12.5x12.5 Max
C: Materials M: Common Mode
D: Thickness(mm) 80: 8.0 Max
E: Internal Control
F: Tolerance M: $\pm 20\%$
G: Inductance 100=10uH

4. Electrical Characteristics

Part Number	Winding	Inductance (μ H)	Test Frequency (KHz)	DC Resistance (m Ω)Typ.	Heat Rating Current Irms(A)	Saturation Current Isat(A)
APW12M80LCM100	L(1,2-3,4) Parallel Ratings	10.47	100KHz/0.25V	17.2	6.04	11.2
	L(1-4)(2,3) Series Ratings	41.88	100KHz/0.25V	68.6	3.02	5.6

Notes:

- All test data is referenced to 25°C ambient.
- Operating Temperature Range-40°C to +125°C.
- DC current(A) that will cause an approximate ΔT of 40°C.

- d. DC current(A) that will cause L_o to drop approximately 35%.
- e. The part temperature(ambient + temp rise)should not exceed 125°C 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.