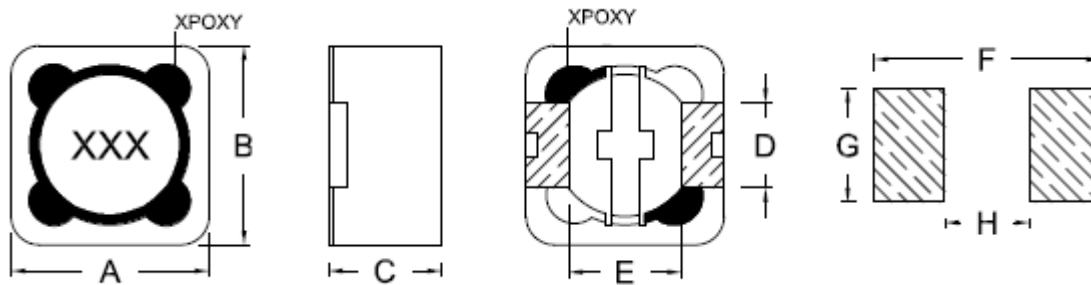


1. External Dimensions (Unit:m/m)



TYPE	A	B	C	D	E	F	G	H	Q'TY/Reel
APW12N60	12.5Max	12.5Max	6.0Max	5.0Ref	7.6Ref	12.6Ref	5.4Ref	7.0Ref	500

2. Part Number Code

APW 12 N 60 LC M 820
 A B C D E F G

A: Series Name Power Inductors
 B: Dimensions(mm) 12: 12.5x12.5 Max
 C: Materials NO use
 D: Thickness(mm) 60: 6.0 Max
 E: Internal controls
 F: Tolerance M: $\pm 20\%$
 G: Inductance 820=82uH

3. Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (KHz)	DC Resistance (mΩ)Max.	Rated DC Current (A)Max.	Wire diameter laps
APW12N60LCM820	82.0	100KHz/0.25V	160.0	2.4	Φ0.35*1P*32.5Ts Ref

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.
- DC current(A) that will cause L_o to drop approximately 20%.
- 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.