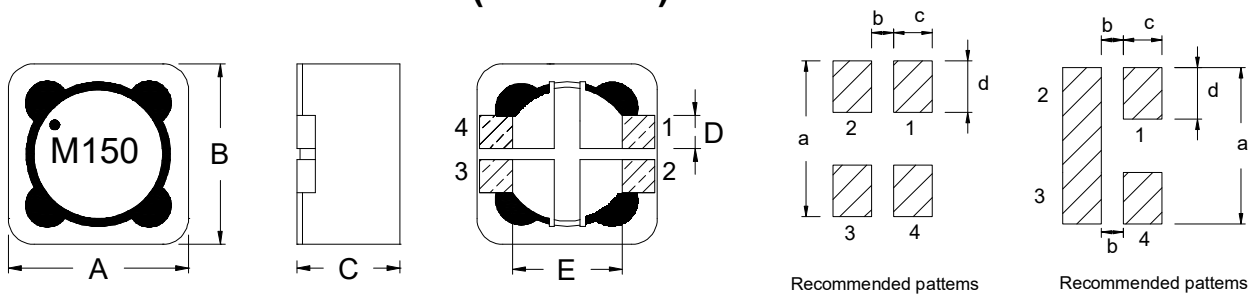
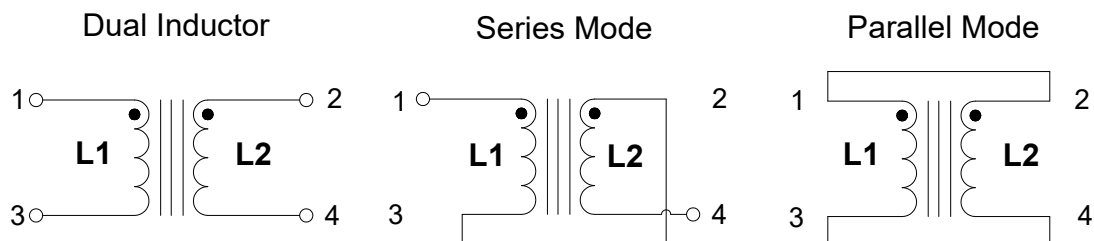


### 1. External Dimensions (Unit:m/m)



| Type   | A       | B       | C      | D      | E      | a       | b      | c      | d       | Q'TY/Reel |
|--------|---------|---------|--------|--------|--------|---------|--------|--------|---------|-----------|
| ARH127 | 12.5Max | 12.5Max | 8.0Max | 2.0Ref | 8.0Ref | 13.8Ref | 0.5Ref | 2.5Ref | 3.85Ref | 350       |

### 2. Schematics



### 3. Part Number Code

ARH    127    M    150    M  
 A        B        C        D        E

A: Series Name                      Power Inductors  
 B: Dimensions(mm)                127: 12.5x12.5x8.0 Max  
 C: Tolerance                          M:  $\pm 20\%$   
 D: Inductance                        150=15uH  
 E: Materials                          M: Type

### 4. Electrical Characteristics

| Part Number | Winding                        | Inductance ( $\mu$ H) | Test Frequency (KHz) | DC Resistance (m $\Omega$ )Typ. | Heat Rating Current Irms(A) | Saturation Current Isat(A) |
|-------------|--------------------------------|-----------------------|----------------------|---------------------------------|-----------------------------|----------------------------|
| ARH127M150M | L(1,2-3,4)<br>Parallel Ratings | 14.09                 | 100KHz/0.25V         | 24.4                            | 5.08                        | 9.76                       |
|             | L(1-4)(2,3)<br>Series Ratings  | 56.36                 | 100KHz/0.25V         | 98.0                            | 2.51                        | 4.9                        |

Notes:

- 1) AEC-Q200 qualified.
- 2) All test data is referenced to 25°C ambient.
- 3) Operating temperature range -40°C to +125°C,(Including self - temperature rise).
- 4) Irms :DC current(A) that will cause an approximate  $\Delta T$  of 40°C.
- 5) Isat :DC current(A) that will cause  $I_o$  to drop approximately 35%.

- 6) The part temperature(ambient + temp rise)should not exceed 125°C under worst case operating conditions. Circuit design,component placement, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature,part temperature should be verified in the end application.