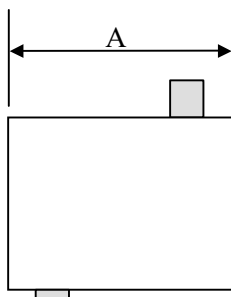
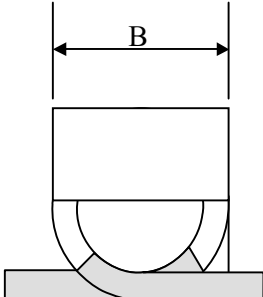
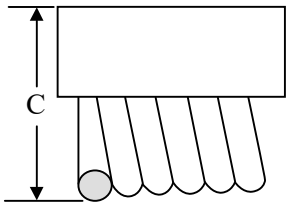
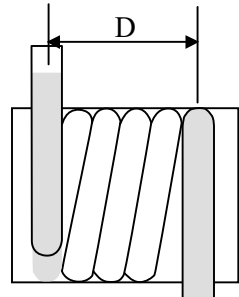


## Air Core Coil Features

- Air core inductors feature high Q and current handling
- Acrylic top provides a flat surface for pick and place
- Solder coated leads ensure reliable soldering
- Operating temperature range:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Storage temperature range:  $-55^{\circ}\text{C}$  to  $+145^{\circ}\text{C}$



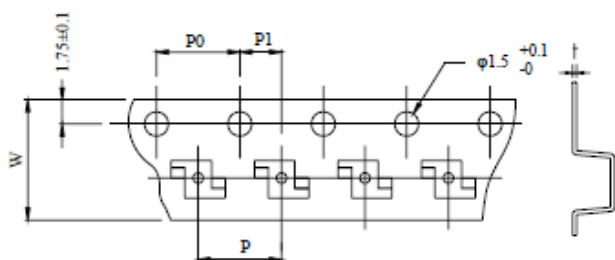
## Air Core Coil Inductor Dimensions & Configurations (Unit In mm)

|                                                                                   |                                                                                   |                                                                                    |                                                                                     |                |                |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|----------------|
|  |  |  |  |                |                |
| Top View                                                                          | Side View                                                                         | Side View                                                                          | Bottom View                                                                         |                |                |
| P/N Type                                                                          | A                                                                                 | B                                                                                  | C                                                                                   | D              | E              |
| SCA1812H Series                                                                   | $4.90 \pm 0.3$                                                                    | $3.80 \pm 0.2$                                                                     | $3.50 \pm 0.2$                                                                      | $4.30 \pm 0.4$ | $1.00 \pm 0.3$ |

## Specification

| Part Number    | (A)Max | Inductance (nH)<br>+5% | Q(min) | Test Freq<br>(MHz) | DCR<br>(mΩ)Max | SRF(GHz)(min) |
|----------------|--------|------------------------|--------|--------------------|----------------|---------------|
| SCA1812H22NGTT | 3.0    | 22                     | 100    | 150                | 4.2            | 3.20          |
| SCA1812H27NGTT | 3.5    | 27                     | 100    | 150                | 4.0            | 2.70          |
| SCA1812H33NGTT | 3.0    | 33                     | 100    | 150                | 4.8            | 2.50          |
| SCA1812H39NGTT | 3.0    | 39                     | 100    | 150                | 4.4            | 2.10          |
| SCA1812H47NGTT | 3.0    | 47                     | 100    | 150                | 5.6            | 2.10          |
| SCA1812H56NGTT | 3.0    | 56                     | 100    | 150                | 6.2            | 1.50          |
| SCA1812H68NGTT | 2.5    | 68                     | 100    | 150                | 8.2            | 1.50          |
| SCA1812H82NGTT | 2.5    | 82                     | 100    | 150                | 9.4            | 1.30          |
| SCA1812HR10GTT | 1.7    | 100                    | 100    | 150                | 12.3           | 1.20          |
| SCA1812HR12GTT | 1.5    | 120                    | 100    | 150                | 17.3           | 1.10          |
| SCA1812HR15GTT | 1.2    | 150                    | 100    | 150                | 33.0           | 0.75          |

## Tape & Reel Information



| Parameter    | Units | Value |
|--------------|-------|-------|
| Qty per reel | PCS   | 1200  |
| Reel Size    | mm    | 330   |
| Tape Width   | mm    | 16.00 |
| P            | mm    | 12.00 |
| Po           | mm    | 4.00  |
| P1           | mm    | 6.00  |

- Packing Quantity  
Reel : 500 PCS / R