

# OWA0805

## Air coil inductor



### Description

Circular air core inductor

### Features

High Q  
High current handling  
Low loss  
Low DCR

### Applications

Base Stations  
LNAs and LNBs for satellite

## Characteristics

|                                             |                               |
|---------------------------------------------|-------------------------------|
| Test Voltage                                |                               |
| Parameters Test Temp                        | 25°C                          |
| Operation Temp (Including temperature Rise) | -40°C to +125°C               |
| Storage Temp                                | 0 to 40°C                     |
| Storage Humidity                            | <70% RH                       |
| Resistance to Soldering Heat                | 260°C for 10 sec              |
| Rated Current                               |                               |
| Temperature Rise                            | 40°C typ. at I <sub>rms</sub> |

| Product ID   | DCR [mohm] | I <sub>sat</sub> [A] | I <sub>rms</sub> [A] | I <sub>rated</sub> [mA] | I <sub>dc max</sub> [mA] | Q (min) | SRF [MHz] |
|--------------|------------|----------------------|----------------------|-------------------------|--------------------------|---------|-----------|
| OWA0805-3N9K | 2.60       | 0.00                 | 1,2                  |                         | 80                       | 3000    |           |
| OWA0805-4N7K | 3.60       | 0.00                 | 0,9                  |                         | 80                       | 3000    |           |
| OWA0805-5N6K | 3.70       | 0.00                 | 0,95                 |                         | 80                       | 3000    |           |
| OWA0805-6N8K | 4.50       | 0.00                 | 0,9                  |                         | 80                       | 3000    |           |
| OWA0805-8N2K | 5.30       | 0.00                 | 0,84                 |                         | 80                       | 3000    |           |
| OWA0805-10NK | 5.40       | 0.00                 | 0,9                  |                         | 70                       | 3000    |           |
| OWA0805-12NK | 6.30       | 0.00                 | 0,9                  |                         | 70                       | 3000    |           |
| OWA0805-15NK | 7.20       | 0.00                 | 0,9                  |                         | 70                       | 2500    |           |
| OWA0805-18NK | 12.50      | 0.00                 | 0,5                  |                         | 70                       | 2500    |           |
| OWA0805-22NK | 12.90      | 0.00                 | 0,55                 |                         | 70                       | 2400    |           |
| OWA0805-27NK | 14.50      | 0.00                 | 0,55                 |                         | 70                       | 1600    |           |
| OWA0805-33NK | 18.70      | 0.00                 | 0,5                  |                         | 70                       | 1600    |           |
| OWA0805-39NK | 25.70      | 0.00                 | 0,38                 |                         | 70                       | 1500    |           |
| OWA0805-47NK | 34.50      | 0.00                 | 0,32                 |                         | 70                       | 1500    |           |
| OWA0805-56NK | 38.40      | 0.00                 | 0,32                 |                         | 70                       | 1300    |           |
| OWA0805-68NK | 42.20      | 0.00                 | 0,32                 |                         | 70                       | 1300    |           |

## Shape and dimensions [mm]

| A           | B           | C           | D | E | F | G          | H           | I           | J | Shape  |
|-------------|-------------|-------------|---|---|---|------------|-------------|-------------|---|--------|
| 2.85<br>Max | 1.80<br>Max | 2.10<br>Max |   |   |   | 2.3<br>Ref | 1.02<br>Ref | 0.76<br>Ref |   | Fig. 2 |

Fig.1

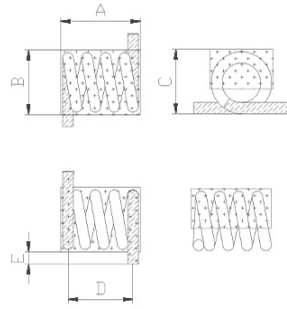


Fig.2

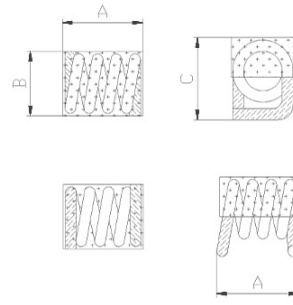


Fig.1

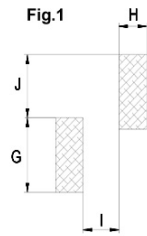


Fig.2

