

# OWIHP0530A

Alloy metal molded



## Description

Carbonyl power inductor

## Features

Carbonyl powder inductor, stable performance parameters.  
Excellent reliability.  
Low loss and low DCR  
Very low leakage flux.  
Compliant with AEC Q200.  
Frequency up to 3MHz.

## Applications

Automotive Accessories  
Automotive Infotainment  
Automotive industry components  
Various industrial products

## Characteristics

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Test Voltage                                | 1.0V                        |
| Parameters Test Temp                        | 25°C                        |
| Operation Temp (Including temperature Rise) | -55°C to +150°C             |
| Storage Temp                                | 0 to 40°C                   |
| Storage Humidity                            | <70% RH                     |
| Resistance to Soldering Heat                | 260°C for 10 sec            |
| Rated Current                               | L drops off 25% typ at Isat |
| Temperature Rise                            | 40°C typ. at Irms           |

| Product ID     | DCR [mohm] | Isat [A] | Irms [A] | Irated [mA] | Idc max [mA] | Q (min) | SRF [MHz] |
|----------------|------------|----------|----------|-------------|--------------|---------|-----------|
| OWIHP0530A-R33 | 5.00       | 18.00    | 14       |             |              |         |           |
| OWIHP0530A-R47 | 7.40       | 16.00    | 12       |             |              |         |           |
| OWIHP0530A-R68 | 11.50      | 14.00    | 8,5      |             |              |         |           |
| OWIHP0530A-1R0 | 13.50      | 11.00    | 7        |             |              |         |           |
| OWIHP0530A-1R2 | 15.50      | 11.00    | 6,5      |             |              |         |           |
| OWIHP0530A-1R5 | 23.00      | 10.00    | 6        |             |              |         |           |
| OWIHP0530A-2R2 | 35.00      | 9.00     | 5,5      |             |              |         |           |
| OWIHP0530A-3R3 | 38.00      | 8.00     | 5        |             |              |         |           |
| OWIHP0530A-4R7 | 53.00      | 6.00     | 4,6      |             |              |         |           |
| OWIHP0530A-5R6 | 63.00      | 4.50     | 4,25     |             |              |         |           |
| OWIHP0530A-6R8 | 76.20      | 4.30     | 4        |             |              |         |           |
| OWIHP0530A-100 | 126.00     | 3.50     | 2,75     |             |              |         |           |

## Shape and dimensions [mm]

| A             | B             | C             | D          | E          | F | G | H          | I        | J          | Shape |
|---------------|---------------|---------------|------------|------------|---|---|------------|----------|------------|-------|
| 5.70<br>±0.35 | 5.20<br>±0.30 | 2.80<br>±0.20 | 1,2<br>Ref | 2,2<br>Ref |   |   | 2,7<br>Ref | 2<br>Ref | 2,2<br>Ref |       |



