

# OWIHP0650A

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] |
|----------------|------------|----------|----------|-------------|--------------|---------|-----------|
| OWIHP0650A-1R8 | 11.00      | 15.00    | 12       |             |              |         |           |
| OWIHP0650A-R47 | 3.90       | 30.00    | 22       |             |              |         |           |
| OWIHP0650A-R56 | 4.20       | 27.00    | 20       |             |              |         |           |
| OWIHP0650A-R60 | 4.30       | 25.00    | 19       |             |              |         |           |
| OWIHP0650A-R68 | 4.50       | 50.00    | 18       |             |              |         |           |
| OWIHP0650A-R82 | 4.90       | 22.00    | 16,5     |             |              |         |           |
| OWIHP0650A-1R0 | 6.50       | 20.20    | 15       |             |              |         |           |
| OWIHP0650A-1R2 | 7.50       | 18.00    | 14       |             |              |         |           |
| OWIHP0650A-1R5 | 9.00       | 16.50    | 12       |             |              |         |           |
| OWIHP0650A-1R8 | 11.00      | 15.00    | 12       |             |              |         |           |
| OWIHP0650A-2R2 | 11.60      | 14.00    | 10       |             |              |         |           |
| OWIHP0650A-3R3 | 20.90      | 12.00    | 8        |             |              |         |           |
| OWIHP0650A-4R7 | 30.20      | 10.00    | 6,5      |             |              |         |           |
| OWIHP0650A-5R6 | 49.00      | 9.00     | 6        |             |              |         |           |
| OWIHP0650A-6R8 | 50.50      | 8.50     | 5,5      |             |              |         |           |
| OWIHP0650A-8R2 | 60.00      | 8.00     | 5        |             |              |         |           |
| OWIHP0650A-100 | 69.00      | 7.50     | 4        |             |              |         |           |
| OWIHP0650A-220 | 160.00     | 5.50     | 2,5      |             |              |         |           |

## Shape and dimensions [mm]

| A             | B             | C             | D          | E        | F | G | H          | I           | J          | Shape |
|---------------|---------------|---------------|------------|----------|---|---|------------|-------------|------------|-------|
| 7.30<br>±0.35 | 6.60<br>±0.30 | 4.80<br>±0.20 | 1,6<br>Ref | 3<br>Ref |   |   | 3,5<br>Ref | 2,35<br>Ref | 3,7<br>Ref |       |

