

# OWIHP0518A-R33

## Carbonyl power inductor



### 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

### General Specifications

|  |                             |
|--|-----------------------------|
| Test Voltage                                   | 1.0V                        |
| Parameters Test Temp                           | 25°C                        |
| Operation Temp<br>(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           |

| Inductance | Ltol.   | Test freq. | DCR [mΩ] | Isat [A] | Irms [A] | Irated [mA] | Idc max [mA] | Q (min) | SRF[MHz] |
|------------|---------|------------|----------|----------|----------|-------------|--------------|---------|----------|
| 0.33 uH    | K, M, N | 100 kHz    | 8.60     | 15.00    | 11       |             |              |         |          |

When ordering please specify tolerance code Tolerance: K=±10%, M=±20%, N=±30%

## Shape and dimensions [mm]

| A     | B     | C     | D   | E   | F | G | H   | I   | J   | Shape |
|-------|-------|-------|-----|-----|---|---|-----|-----|-----|-------|
| 5.70  | 5.20  | 1.60  | 1,2 | 2,2 |   |   | 2,7 | 2   | 2,2 |       |
| ±0.35 | ±0.30 | ±0.20 | Ref | Ref |   |   | Ref | Ref | Ref |       |



