

OWIHP0420A-R18

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 (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] |
|------------|---------|------------|----------|----------|----------|-------------|--------------|---------|----------|
| 0.18 uH | K, M, N | 100 kHz | 5.40 | 28.00 | 11,5 | | | | |

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 |
|-------|-------|-------|-----|-----|---|---|-----|-----|-----|-------|
| 4.40 | 4.20 | 1.80 | 0,8 | 2 | | | 2,5 | 1,5 | 2,2 | |
| ±0.35 | ±0.30 | ±0.20 | Ref | Ref | | | Ref | Ref | Ref | |



