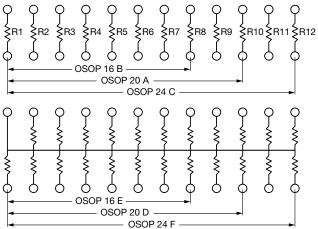
Vishay Dale Thin Film





OSOP Series resistor networks feature a space saving 25 mil lead pitch versus the current 50 mil pitch standard. This allows users to reduce board space more than 50 % over current standards. The OSOP series features 16, 20, and 24 pin variations with isolated and last pin common schematics. Custom schematics and resistor values are also available, consult factory.

SCHEMATIC



FEATURES

- 0.068" (1.73 mm) maximum seated height
- · Rugged molded case construction with no internal solder
- JEDEC[®] MO-137 variation AB = 16 pin, AD = 20 pin, AE = 24 pin
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

TYPICAL PERFORMANCE

| \bullet | ABSOLUTE | TRACKING | |
|-----------|----------|----------|--|
| TCR | 25 | 5 | |
| | ABSOLUTE | RATIO | |
| TOL. | 0.1 | 0.05 | |

| STANDARD RESISTANCE OFFERING ($R_1 =$) | | |
|--|--------|--|
| 500 Ω | 10 kΩ | |
| 1 kΩ | 20 kΩ | |
| 2 kΩ | 50 kΩ | |
| 5 kΩ | 100 kΩ | |

Note

Consult factory for additional values and schematics

| STANDARD ELECTRICAL SPECIFICATIONS | | | | |
|------------------------------------|--|-------------------|--|--|
| TEST | SPECIFICATIONS | CONDITIONS | | |
| Material | Passivated nichrome | - | | |
| Pin / Lead Number | 16, 20, 24 | - | | |
| Resistance Range | 500 Ω to 100 k Ω per resistor | - | | |
| TCR: Absolute | ± 25 ppm/°C | -55 °C to +125 °C | | |
| TCR: Tracking | ± 5 ppm/°C | -55 °C to +125 °C | | |
| Tolerance: Absolute | ± 0.1 % to ± 1 % | +25 °C | | |
| Tolerance: Ratio | ± 0.025 % to ± 0.5 % | +25 °C | | |
| Power Rating: Resistor | 100 mW | Maximum at +70 °C | | |
| Power Rating: Package | 400 mW | Maximum at +70 °C | | |
| Stability: Absolute | $\Delta R \pm 0.05 \%$ | 2000 h at +70 °C | | |
| Stability: Ratio | $\Delta R \pm 0.015 \%$ | 2000 h at +70 °C | | |
| Voltage Coefficient | < 0.1 ppm/V (typical) | - | | |
| Working Voltage | 100 V max. not to exceed $\sqrt{P \times R}$ | - | | |
| Operating Temperature Range | -55 °C to +125 °C | - | | |
| Storage Temperature Range | -55 °C to +150 °C | - | | |
| Noise | < -30 dB | - | | |
| Thermal EMF | 0.08 µV/°C | - | | |
| Shelf Life Stability: Absolute | $\Delta R \pm 0.01 \%$ | 1 year at +25 °C | | |
| Shelf Life Stability: Ratio | $\Delta R \pm 0.002 \%$ | 1 year at +25 °C | | |

Revision: 23-Apr-2019

1 For technical questions, contact: thinfilm@vishay.com Document Number: 60002

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RoHS

HALOGEN FREE

OSOP



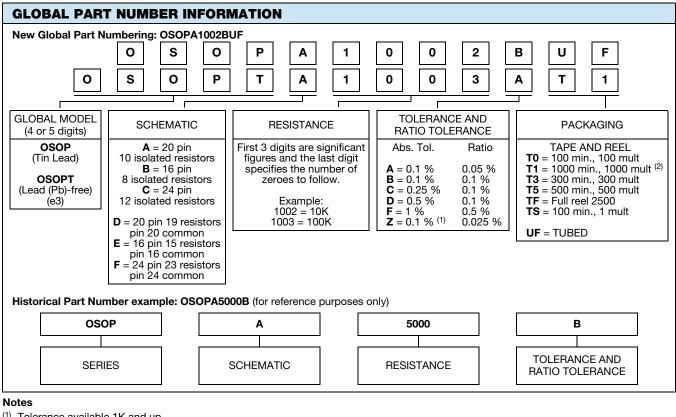




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| DIMENSIONS AND IMPRINTING in inches and millimeters | | | | | | |
|---|-----------|------------|---------------|-------------|--|--|
| | DIMENSION | | INCHES | MILLIMETERS | | |
| | А | 16 pin | 0.193 ± 0.003 | 4.90 | | |
| | | 20, 24 pin | 0.341 ± 0.003 | 8.66 | | |
| | | В | 0.154 | 3.91 | | |
| Logo | С | | 0.237 | 6.02 | | |
| | | D | 0.025 | 0.635 | | |
| | | E | 0.010 ± 0.002 | 0.25 ± 0.05 | | |
| PIN 1 →● | | F | 0.062 | 1.58 | | |
| | | G | 0.068 | 1.73 | | |
| | | Н | 0.010 ± 0.002 | 0.25 ± 0.05 | | |
| H Code 4- G | I | | 0.025 | 0.64 | | |
| | | 16 pin | 0.009 | 0.23 | | |
| | J | 20 pin | 0.057 | 1.47 | | |
| | | 24 pin | 0.033 | 0.838 | | |

| MECHANICAL SPECIFICATIONS | | |
|------------------------------------|---------------------|--|
| Resistive Element | Passivated nichrome | |
| Substrate Material | Silicon | |
| Body | Molded epoxy | |
| Terminals | Copper alloy | |
| Lead (Pb)-free Option | 100 % matte tin | |
| Tin Lead Option | Sn90 | |
| Tin Lead and Lead (Pb)-free Finish | Plated | |



⁽¹⁾ Tolerance available 1K and up

⁽²⁾ Preferred packaging code

Revision: 23-Apr-2019



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