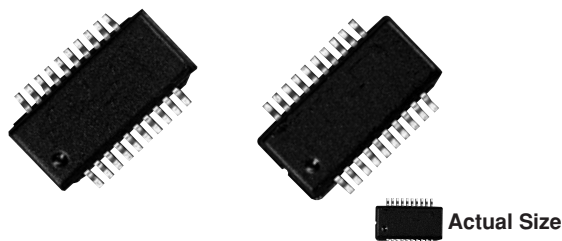


OSOP

Vishay Thin Film



Molded, 25 Mil Pitch, Dual-In-Line Resistor Network



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 feature 10 isolated resistors in a 20 lead style available for immediate delivery in the standard values listed.

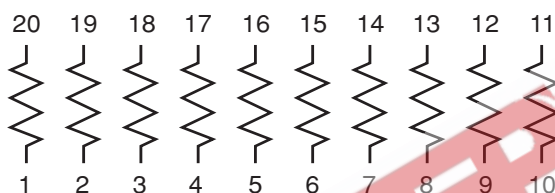
FEATURES

- 0.068" (1.73mm) maximum seated height
- Rugged molded case construction with no internal solder
- Highly stable thin film
- JEDEC MO #137 Package AD

TYPICAL PERFORMANCE

| | ABS | TRACKING |
|-----|-----|----------|
| TCR | 25 | 5 |
| | ABS | RATIO |
| TOL | 0.1 | 0.05 |

SCHEMATIC



| STANDARD RESISTANCE OFFERING (R ₁ =) | |
|--|-----------|
| 500 ohms | 10K ohms |
| 1K ohms | 20K ohms |
| 2K ohms | 50K ohms |
| 5K ohms | 100K ohms |

Consult factory for additional values.

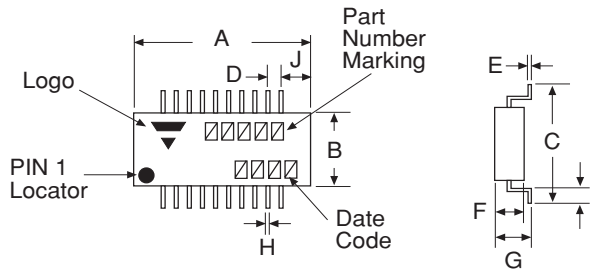
STANDARD ELECTRICAL SPECIFICATIONS

| TEST | SPECIFICATIONS | CONDITIONS |
|-----------------------------|-----------------------|-------------------------------|
| MATERIAL | TAMELOX® | |
| TCR: | Tracking | ± 5ppm/°C |
| | Absolute | ± 25ppm/°C |
| Tolerance: | Ratio | ± 0.5%, ± 0.1%, ± 0.05% |
| | Absolute | ± 1%, ± 0.5%, ± 0.25%, ± 0.1% |
| Power Rating: | Resistor | 100mW |
| | Package | 400mW |
| Stability | ΔR Absolute | 500ppm |
| | ΔR Ratio | 150ppm |
| Voltage Coefficient | < 0.1ppm/Volt typical | |
| Working Voltage | 100 Volts Max. | |
| Operating Temperature Range | - 55°C to + 125°C | |
| Storage Temperature Range | - 55°C to + 150°C | |
| Noise | < - 30dB | |
| Thermal EMF | 0.08μV/°C | |
| Shelf Life Stability: | Absolute | 100ppm |
| | Ratio | 20ppm |
| | | 1 year @ + 25°C |
| | | 1 year @ + 25°C |

VISHAY THIN FILM • FRANCE +33.4.93.37.28.24 FAX: +33.4.93.37.27.31 • GERMANY +49.9287.710 FAX: +49 9287.70435 • ISRAEL +972.3.557.0945 FAX: +972.3.558.9121
 • ITALY + 39.2.300.11919 FAX: +39.2.300.11999 • JAPAN +81.42.729.0661 FAX: +81.42.729.3400 • SINGAPORE +65.788.6668 FAX: +65.788.0988
 • SWEDEN +46.8.594.70590 FAX: +46.8.594.70581 • UK +44 191 514 8237 FAX: +44 1953 457 722 • USA: (610) 407-4800 FAX: (610) 640-9081



DIMENSIONS AND IMPRINTING in inches and millimeters



| DIMENSION | INCHES | MILLIMETERS |
|-----------|--------------|-------------|
| A | 0.344 | 8.74 |
| B | 0.154 | 3.91 |
| C | 0.237 | 6.02 |
| D | 0.025 | 0.635 |
| E | 0.010 ±0.002 | 0.25 ±0.05 |
| F | 0.062 | 1.58 |
| G | 0.068 | 1.73 |
| H | 0.010 ±0.002 | 0.25 ±0.05 |
| I | 0.025 | 0.64 |
| J | 0.057 | 1.47 |

| MECHANICAL SPECIFICATIONS | |
|--------------------------------|-----------------------------|
| Resistive Element | Tamelox® |
| Substrate Material | Silicon |
| Body | Molded Epoxy |
| Terminal | Copper Alloy 194 Solderable |
| Lead Coplanarity | ± 0.004" (± 0.50mm) |
| Marking Resistance to Solvents | per MIL-PRF-83401 |

How to Order

| Series | Schematic | Resistance Value | Tolerance and Ratio Tolerance | |
|-------------------------------|--|---|---|--------|
| OSOP = 20 lead SO style | A = 10 nominally equal resistors with each resistor isolated from all others and wired directly across | The first 3 digits are significant figures and the last digit specifies the number of zeros to follow. eg. 1001 = 1K 1002 = 10K | Abs. Tol. | Ratio |
| | | | *A = ±0.1% | ±0.05% |
| | | | B = ±0.1% | ±0.1% |
| | | | C = ±0.25% | ±0.1% |
| | | | D = ±0.5% | ±0.1% |
| | | | F = ±1.0% | ±0.5% |
| | | | *Tolerance available on 1K ohm and up only. | |

Example: OSOPA5000B is a 20 lead small outline molded network with 10 resistors, 500 ohms each resistor, 0.1% absolute tolerance, 0.1% ratio to R1.

All parts are shipped in tubes unless tape and reel packaging is requested.