Vishay Dale Thin Film

OSOP

RoHS

HALOGEN FREE



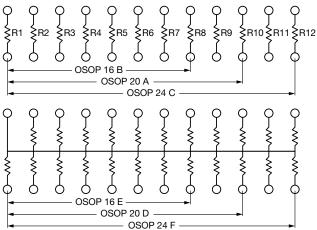
Molded, 25 mil Pitch, Dual-In-Line Thin Film Resistor, **Surface Mount Network**



Actual Size

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

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	∆ <i>R</i> ± 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	∆ <i>R</i> ± 0.01 %	1 year at +25 °C
Shelf Life Stability: Ratio	$\Delta R \pm 0.002 \%$	1 year at +25 °C

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

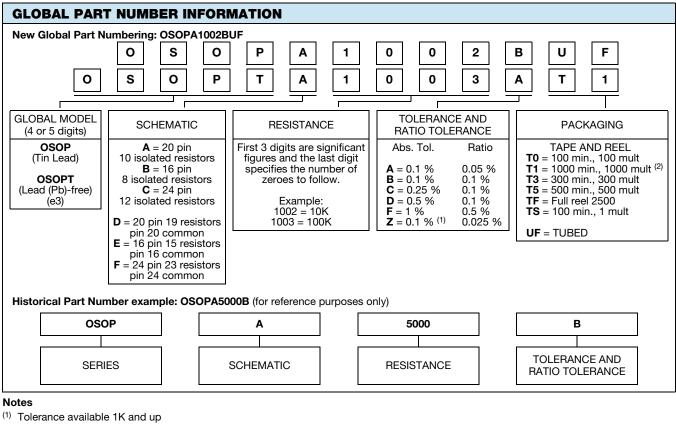
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DIMENSIONS AND IMPRINTING in inches and millimeters					
	DIMENSION		INCHES	MILLIMETERS	
	А	16 pin	0.193 ± 0.003	4.90	
		20, 24 pin	0.341 ± 0.003	8.66	
	В		0.154	3.91	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	С		0.237	6.02	
		D	0.025	0.635	
		E	0.010 ± 0.002	0.25 ± 0.05	
PIN 1 → ●		F	0.062	1.58	
	G H		0.068	1.73	
			0.010 ± 0.002	0.25 ± 0.05	
H Code 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	



⁽²⁾ Preferred packaging code

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