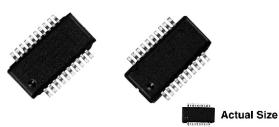


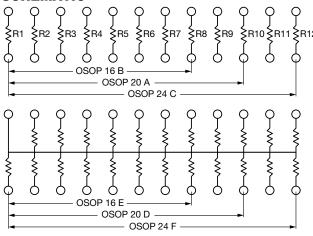


# Molded, 25 mil Pitch, Dual-In-Line Thin Film Resistor, **Surface Mount Network**



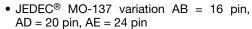
OSOP Series resistor networks feature a space saving 25 mil lead pitch versus the current 50 mil pitch standard. This allows users to reduce board space more than 50 % over current standards. The OSOP series features 16, 20, and 24 pin variations with isolated and last pin common schematics. Custom schematics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



 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



HALOGEN FREE

#### 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

	ABSOLUTE	TRACKING
TCR	25	5
	ABSOLUTE	RATIO
TOL.	0.1	0.05

STANDARD RESISTANCE OFFERING (R <sub>1</sub> =)		
500 Ω	10 kΩ	
1 kΩ	20 kΩ	
2 kΩ	50 kΩ	
5 kΩ	100 kΩ	

#### Note

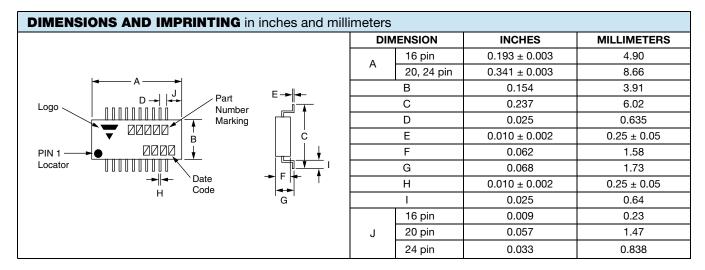
· Consult factory for additional values and schematics

STANDARD ELECTRICAL SPECIFICATIONS			
TEST	SPECIFICATIONS	CONDITIONS	
Material	Passivated nichrome	-	
Pin / Lead Number	16, 20, 24	-	
Resistance Range	500 $\Omega$ to 100 k $\Omega$ 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	ΔR ± 0.05 %	2000 h at +70 °C	
Stability: Ratio	ΔR ± 0.015 %	2000 h at +70 °C	
Voltage Coefficient	< 0.1 ppm/V (typical)	-	
Working Voltage	100 V max. not to exceed √P x 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	ΔR ± 0.01 %	1 year at +25 °C	
Shelf Life Stability: Ratio	ΔR ± 0.002 %	1 year at +25 °C	

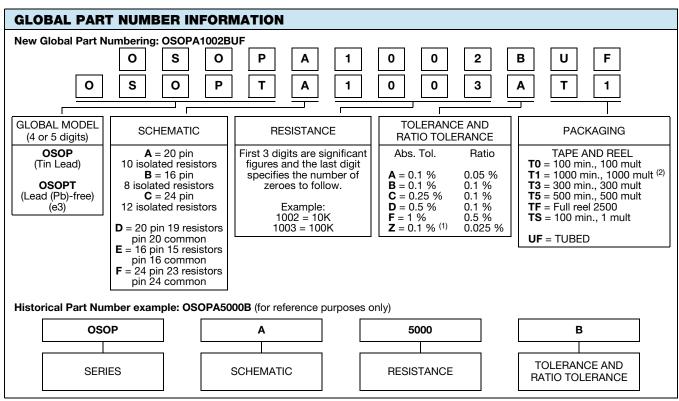
Revision: 23-Apr-2019 Document Number: 60002



### Vishay Dale Thin Film



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	



#### Notes

- (1) Tolerance available 1K and up
- (2) Preferred packaging code



## **Legal Disclaimer Notice**

Vishay

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