# VISHAY.

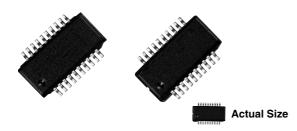
OSOP

RoHS

COMPLIANT

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.

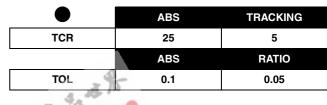
#### SCHEMATIC

20	19	18	17	16	15	14	13	12	11	
7	7	7	7	٢	7	7	7	٢	2	
$\geq$	2	$\geq$	$\geq$	$\geq$	2	$\geq$		$\geq$	$\geq$	
$\leq$	<	$\leq$	$\leq$							
ſ	ſ	ſ	ſ	ſ	ſ	ſ			1	
1	2	3	4	5	6	7	8	9	10	

#### FEATURES

- Lead (Pb)-free available
- 0.068" (1.73 mm) maximum seated height
- Rugged molded case construction with no internal solder
- Thin film element
- JEDEC MO #137 Package AD

#### **TYPICAL PERFORMANCE**



STANDARD RESISTA	<b>NCE OFFERING</b> $(R_1 =)$	
500 Ω	10 kΩ	
1 kΩ	20 kΩ	
2 kΩ	50 kΩ	
5 kΩ	100 kΩ	

Consult factory for additional values

TEST	ELECTRICAL SP	SPECIFICATIONS	CONDITIONS	
Material		Passivated Nichrome	••••••	
	Tracking	± 5 ppm/°C	- 55 °C to + 125 °C	
TCR:	Absolute	± 25 ppm/°C	- 55 °C to + 125 °C	
Tolerance:	Ratio	± 0.025 %, ± 0.1 %, ± 0.05 %	+ 25 °C	
	Absolute	± 0.1 %, ± 0.5 %, ± 0.25 %, ± 0.1 %	+ 25 °C	
Power Rating:	Resistor	100 mW	Max. at + 70 °C	
	Package	400 mW	Max. at + 70 °C	
Stability:	∆ <i>R</i> Absolute	500 ppm	2000 h at + 70 °C	
	∆ <i>R</i> Ratio	150 ppm	2000 h at + 70 °C	
Voltage Coefficient		< 0.1 ppm/V typical		
Working Voltage		100 V Max.		
Operating Temper	rature Range	- 55 °C to + 125 °C		
Storage Temperature Range		- 55 °C to + 150 °C		
Noise		< - 30 dB		
Thermal EMF		0.08 μV/°C		
	Absolute	100 ppm	1 year at + 25 °C	
Shelf Life Stability	/: Ratio	20 ppm	1 year at + 25 °C	

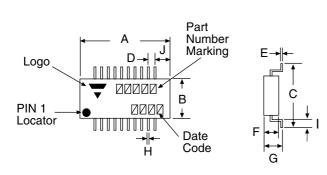
\* Pb containing terminations are not RoHS compliant, exemptions may apply

# OSOP



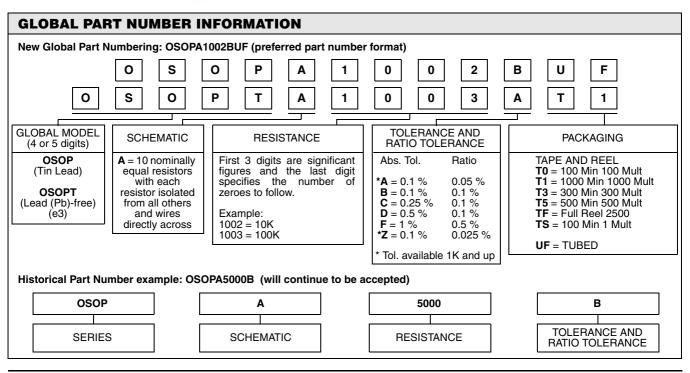
Vishay Thin Film Molded, 25 Mil Pitch, Dual-In-Line Resistor Network

#### DIMENSIONS AND IMPRINTING in inches and millimeters



DIMENSION	INCHES	MILLIMETERS
А	0.344	8.74
В	0.154	3.91
С	0.237	6.02
D	0.025	0.635
E	0.010 ± 0.002	$0.25 \pm 0.05$
F	0.062	1.58
G	0.068	1.73
Н	0.010 ± 0.002	$0.25 \pm 0.05$
I	0.025	0.64
J	0.057	1.47

MECHANICAL SPECIFI	MECHANICAL SPECIFICATIONS				
Resistive Element	Passivated Nichrome				
Substrate Material	Silicon				
Body	Molded epoxy				
Terminals	Copper alloy 194 solderable				
Lead Coplanarity	± 0.004" (± 0.50 mm)				
Marking Resistance to Solvents	per MIL-PRF-83401				
Lead (Pb)-free Option	100 % Sn Matte				
Lead (Pb)-free Finish	Plated				





Vishay

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