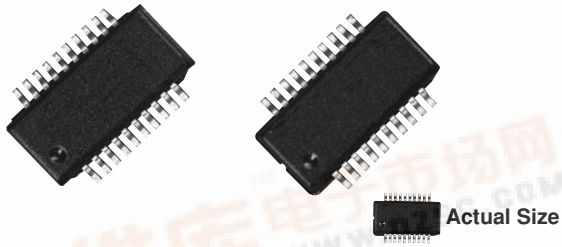
OSOP

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.

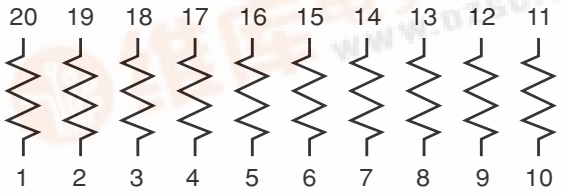
FEATURES

- 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.

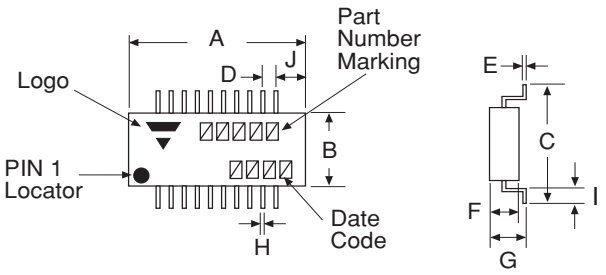
STANDARD ELECTRICAL SPECIFICATIONS			
TEST		SPECIFICATIONS	CONDITIONS
MATERIAL		TAMELOX®	
TCR:	Tracking	± 5ppm/°C	- 55°C to + 125°C
	Absolute	± 25ppm/°C	- 55°C to + 125°C
Tolerance:	Ratio	± 0.5%, ± 0.1%, ± 0.05%	+ 25°C
	Absolute	± 1%, ± 0.5%, ± 0.25%, ± 0.1%	+ 25°C
Power Rating:	Resistor	100mW	Max. @ + 70°C
	Package	400mW	Max. @ + 70°C
Stability	ΔR Absolute	500ppm	2000 hrs @ + 70°C
	ΔR Ratio	150ppm	2000 hrs @ + 70°C
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	1 year @ + 25°C
	Ratio	20ppm	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

OSOP

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

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 leaded 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.