



COMPLIANT

Vishay Thin Film

Molded, 50 Mil Pitch, Dual-In-Line Resistor Network



Actual Size

ORN series resistor networks feature four isolated resistors with standard 50 mil pitch lead spacing. The networks feature close TCR tracking and tight ratio tolerance and are ideally suited for unity gain operational amplifier circuitry. The standard resistance offering listed are available for immediate delivery.

SCHEMATIC



FEATURES

- Lead (Pb)-free available
- 0.068" (1.73 mm) maximum seated height
- Rugged molded case construction with no RoHS internal solder
- Thin film passivity Microbe element
- Low temperature coefficient (± 25 ppm/°C)
- JEDEC MS-012 STD Package

TYPICAL PERFORMANCE

\bullet	ABS	TRACKING
TCR	25	5
	ABS	RATIO
TOL	0.1	0.05
1.19		•

STANDARD RESISTANCE OFFERING $(R_1 =)$		
500 Ω	10 kΩ	
1 kΩ	20 kΩ	
2 kΩ	50 kΩ	
4.99 kΩ	100 kΩ	
5 kΩ		

Consult factory for additional values

STANDARD ELECTRICAL SPECIFICATIONS				
TEST		SPECIFICATIONS	CONDITIONS	
Material		Passivated Nichrome		
TCR:	Tracking	± 5 ppm/°C	- 55 °C to + 125 °C	
	Absolute	± 25 ppm/°C	- 55 °C to + 125 °C	
Tolerance:	Ratio	± 0.5 % to ± 0.01 %	+ 25 °C	
	Absolute	± 1.0 % to ± 0.05 %	+ 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		50 V		
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 Stabilit	Absolute	100 ppm	1 year at + 25 °C	
	Ratio	20 ppm	1 year at + 25 °C	

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

ORN



Vishay Thin Film Molded, 50 Mil Pitch, Dual-In-Line Resistor Network

DIMENSIONS AND IMPRINTING in inches and millimeters



H Seating Plane

MECHANICAL SPECIFICATIONS				
Resistive Element	Passivated Nichrome			
Body	Molded epoxy			
Terminals	Copper Alloy, solderable			
Solderability	Per MIL-PRF-83401			
Marking Resistance to Solvents	Permanency testing per MIL-PRF-83401			
Lead (Pb)-free Option	100 % Sn Matte			
Lead (Pb)-free Finish	Plated			

DIMENSION INCHES мм 0.157 3.99 А В 0.0165 ± 0.0025 0.4 ± 0.06 С 0.050 1.27 D 0.195 Max. 4.93 Е 0.008 ± 0.001 0.20 ± 0.03 F 0.028 ± 0.001 0.71 ± 0.02 G 6.07 ± 0.13 0.239 ± 0.005 Н 0.068 Max. 1.73 I 0.008 ± 0.002 0.22 ± 0.06 Ø 2° to 6°

Notes

1. Leads are within 0.005" (0.13 mm) of true position

2. Leads coplanar to ± 0.004 " (± 0.50 mm)

3. Marking - VISHAY Symbol, Part Number from Ordering Information







Vishay

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.