

Vishay Thin Film

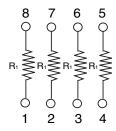
Molded, 50 Mil Pitch, Dual-In-Line Resistor Network



Actual Size

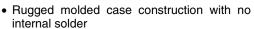
ORN series resistor networks feature four isolated resistors with standard 50 mil pitch lead spacing. The networks feature close TCR tracking and tight ratio tolerance and are ideally suited for unity gain operational amplifier circuitry. The standard resistance offering listed are available for immediate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

SCHEMATIC



FEATURES

- Lead (Pb)-free available
- 0.068" (1.73 mm) maximum seated height





RoHS*

- Thin film passivity Microbe element
- Low temperature coefficient (± 25 ppm/°C)
- JEDEC MS-012 STD Package

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	25 5	
	ABS	RATIO
TOL	0.1	0.05

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

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:	∆R Absolute	500 ppm	2000 h at + 70 °C
	∆R Ratio	150 ppm	2000 h at + 70 °C
Voltage Coefficie	nt	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	
Absolute		100 ppm	1 year at + 25 °C
Shelf Life Stabilit	y: Ratio	20 ppm	1 year at + 25 °C

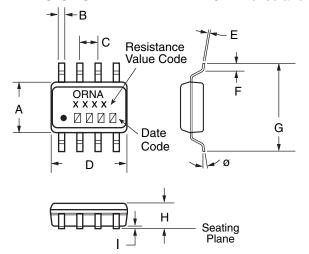
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

ORN

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DIMENSIONS AND IMPRINTING in inches and millimeters



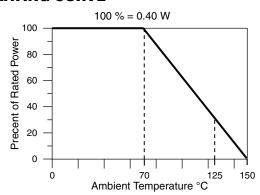
MECHANICAL SPECIFICATIONS				
Resistive Element	Passivated Nichrome			
Body	Molded epoxy			
Terminals	Copper Alloy, solderable			
Solderability	Per MIL-PRF-83401			
Marking Resistance to Solvents	Permanency testing per MIL-PRF-83401			
Lead (Pb)-free Option	100 % Sn Matte			
Lead (Pb)-free Finish	Plated			

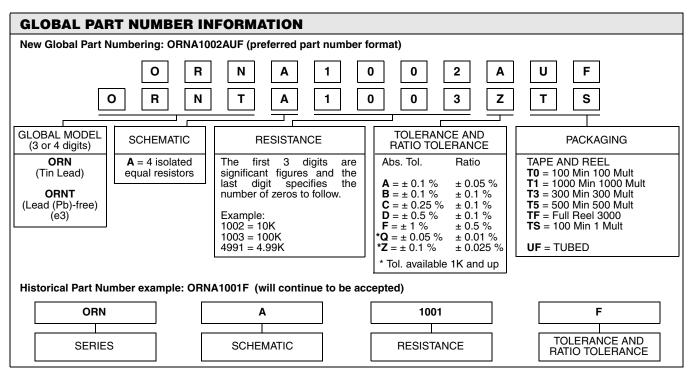
DIMENSION	INCHES	ММ
Α	0.157	3.99
В	0.0165 ± 0.0025	0.4 ± 0.06
С	0.050	1.27
D	0.195 Max.	4.93
E	0.008 ± 0.001	0.20 ± 0.03
F	0.028 ± 0.001	0.71 ± 0.02
G	0.239 ± 0.005	6.07 ± 0.13
Н	0.068 Max.	1.73
1	0.008 ± 0.002	0.22 ± 0.06
Ø	2° to 6°	

Notes

- 1. Leads are within 0.005" (0.13 mm) of true position
- 2. Leads coplanar to \pm 0.004" (\pm 0.50 mm)
- 3. Marking VISHAY Symbol, Part Number from Ordering Information

DERATING CURVE





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Vishay

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