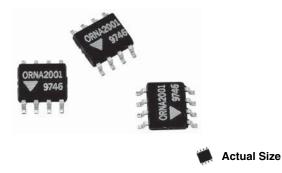
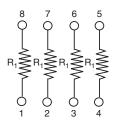
Vishay Thin Film

Molded, 50 mil Pitch, Dual-In-Line Resistor, Surface Mount Network



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

- 0.068" (1.73 mm) maximum seated height
- Rugged molded case construction with no internal solder
 RoHS
- Low temperature coefficient (± 25 ppm/°C)
- JEDEC MS-012 STD variation AA package
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

TYPICAL PERFORMANCE

igodol	ABSOLUTE	TRACKING	
TCR	25	5	
	ABSOLUTE	RATIO	
TOL.	0.1	0.05	

STANDARD RESISTANCE OFFERING ($R_1 =$)				
49.9 Ω	10 kΩ			
100 Ω	20 kΩ			
500 Ω	50 kΩ			
1 kΩ	100 kΩ			
2 kΩ	200 kΩ			
4.99 kΩ	500 kΩ			
5 kΩ				

Note

· Consult factory for additional values and schematics

STANDARD ELECTRICAL SPECIFICATIONS				
TEST	SPECIFICATIONS	CONDITIONS		
Material	Passivated nichrome	-		
Pin/Lead Number	8	-		
Resistance Range	33 Ω to 500 k Ω per resistor	-		
TCR: Absolute	± 25 ppm/°C	- 55 °C to + 125 °C		
TCR: Tracking	± 5 ppm/°C	- 55 °C to + 125 °C		
Tolerance: Absolute	± 0.05 % to ± 1.0 %	+ 25 °C		
Tolerance: Ratio	± 0.01 % 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	$\Delta R \pm 0.05 \%$	2000 h at + 70 °C		
Stability: Ratio	∆ <i>R</i> ± 0.015 %	2000 h at + 70 °C		
Voltage Coefficient	0.1 ppm/V (typical)	-		
Working Voltage	100 V max. not to exceed $\sqrt{P \times R}$	-		
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	$\Delta R \pm 0.002 \%$	1 year at + 25 °C		

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

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COMPLIANT

HALOGEN

FREE

ORN

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150

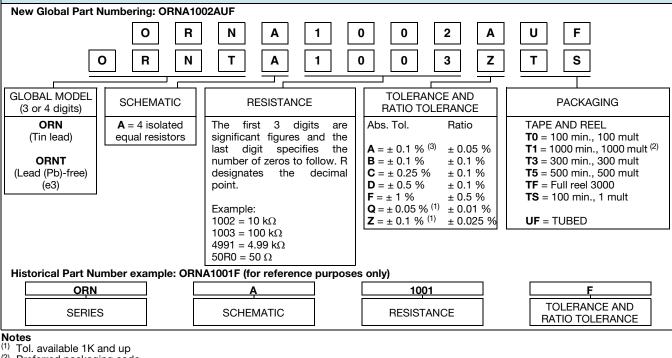
DIMENSIONS AND IMPRINTING in inches and millimeters				
- → 4 -B	DIMENSION	INCHES	MILLIMETERS	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	А	0.157	3.99	
	В	0.0165 ± 0.0025	0.4 ± 0.06	
	С	0.050	1.27	
	D	0.195 max.	4.93	
	E	0.008 ± 0.001	0.20 ± 0.03	
	F	0.028 ± 0.001	0.71 ± 0.02	
	G	0.239 ± 0.005	6.07 ± 0.13	
	Н	0.068 max.	1.73	
	I	0.008 ± 0.002	0.22 ± 0.06	
	Ø	2° to 6°	2° to 6°	

Note

Marking - Vishay symbol, part number from ordering information

MECHANICAL SPECIFICATIONS		DERATING CURVE
Resistive Element	Passivated nichrome	100 - 100 % = 0.40 W
Substrate Material	Silicon	
Body	Molded epoxy	Hated Hated
Terminals	Copper alloy	تة 40 — الم
Lead (Pb)-free Option	100 % matte tin	
Tin Lead Option	Sn90	
Tin Lead and Lead (Pb)-free Finish	Plated	0 70 129 Ambient Temperature °C

GLOBAL PART NUMBER INFORMATION



⁽²⁾ Preferred packaging code $^{(3)}$ Ratio tolerance available 250 Ω and up

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