



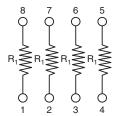
Molded, 50 mil Pitch, Dual-In-Line Thin Film Resistor, Surface Mount Network





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

Note

- 0.068" (1.73 mm) maximum seated height
- Rugged molded case construction with no internal solder



FREE

- 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

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

TYPICAL PERFORMANCE

	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

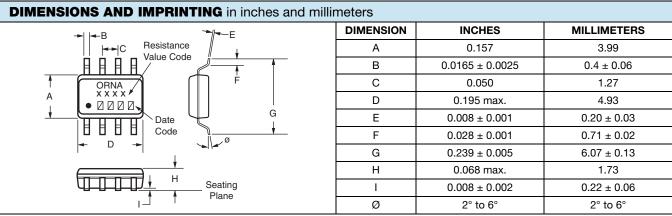
· Consult factory for additional values and schematics

STANDARD ELECTRICAL SPECIFICATIONS			
TEST	SPECIFICATIONS	CONDITIONS	
Material	Passivated nichrome	-	
Pin/Lead Number	8	-	
Resistance Range	$33~\Omega$ to $500~\text{k}\Omega$ 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	ΔR ± 0.05 %	2000 h at + 70 °C	
Stability: Ratio	ΔR ± 0.015 %	2000 h at + 70 °C	
Voltage Coefficient	0.1 ppm/V (typical)	-	
Working Voltage	100 V max. not to exceed √P x 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	ΔR ± 0.002 %	1 year at + 25 °C	

Revision: 02-Sep-11 Document Number: 60005



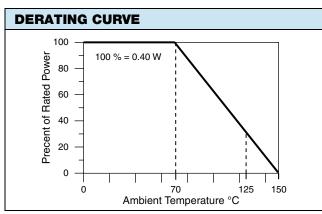
Vishay Dale Thin Film

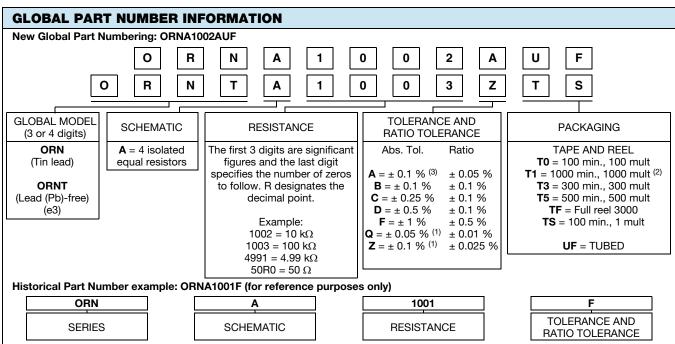


Note

· Marking - Vishay symbol, part number from ordering information

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	Silicon	
Body	Molded epoxy	
Terminals	Copper alloy	
Lead (Pb)-free Option	100 % matte tin	
Tin Lead Option	Sn90	
Tin Lead and Lead (Pb)-free Finish	Plated	





Notes

- 1) Tol. available 1K and up
- (2) Preferred packaging code
- $^{(3)}$ Ratio tolerance available 250 Ω and up



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Vishay

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