Vishay Dale Thin Film

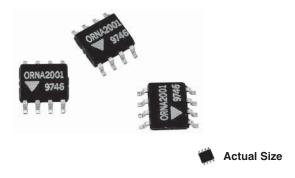


ORN

COMPLIANT HALOGEN

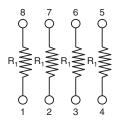
FREE

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

- 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

Note

Pb containing terminations are not RoHS compliant, exemptions may apply

TYPICAL PERFORMANCE

\bullet	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		

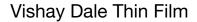
Note

· 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	$\Delta R \pm 0.01 \%$	1 year at + 25 °C		
Shelf Life Stability: Ratio	Δ <i>R</i> ± 0.002 %	1 year at + 25 °C		

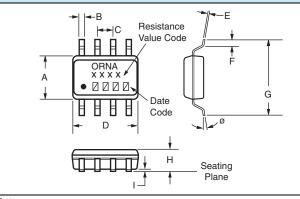
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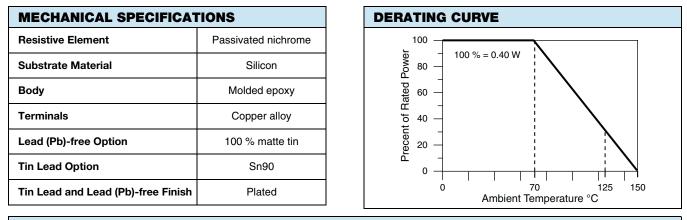
DIMENSIONS AND IMPRINTING in inches and milli



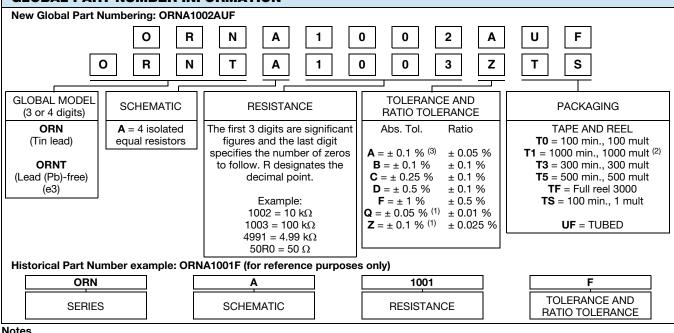
liimeters					
	DIMENSION	INCHES	MILLIMETERS		
	А	0.157	3.99		
	В	0.0165 ± 0.0025	0.4 ± 0.06		
	С	0.050	1.27		
	D	0.195 max.	4.93		
	E	0.008 ± 0.001	0.20 ± 0.03		
	F	0.028 ± 0.001	0.71 ± 0.02		
	G	0.239 ± 0.005	6.07 ± 0.13		
	Н	0.068 max.	1.73		
	I	0.008 ± 0.002	0.22 ± 0.06		
	Ø	2° to 6°	2° to 6°		

Note

· Marking - Vishay symbol, part number from ordering information



GLOBAL PART NUMBER INFORMATION



Notes (1)

Tol. available 1K and up

⁽²⁾ Preferred packaging code (3)

Ratio tolerance available 250 Ω and up

2 For technical questions, contact: thinfilm@vishay.com



Vishay

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