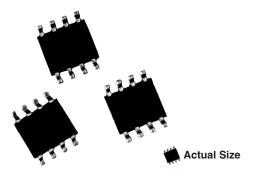


ORN (Divider)

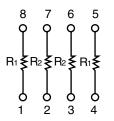
Vishay Thin Film

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



Vishay Thin Film ORN series Dividers provide optimum ratio precision, small size and exceptional stability for most applications. They offer a wide ratio range that is listed in the selection guide and are available for immediate delivery. The tight ratio tolerance offered on the standard ratios will provide exceptional performance throughout life.

SCHEMATIC



FEATURES

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

TYPICAL PERFORMANCE

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

STANDARD RESISTANCE OFFERING (R ₁ /R ₂)				
RATIO	R ₁	R ₂		
100:1	100K	1K		
50:1	50K	1K		
25:1	25K	1K		
20:1	20K	1K		
10:1	10K	1K		
5:1	10K	2K		
2:1	10K	5K		

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	± 0.05 %	+ 25 °C
	Absolute	± 0.1 %	+ 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 Coefficie	nt	< 0.1 ppm/V	
Working Voltage		50 V (Max.)	
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 Ratio	Absolute	100 ppm	1 year at + 25 °C
	Ratio	20 ppm	1 year at + 25 °C

Note: Tantalum Nitride film is custom, consult factory

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

Document Number: 60006 Revision: 14-May-07

For technical questions, contact: thin-film@vishay.com

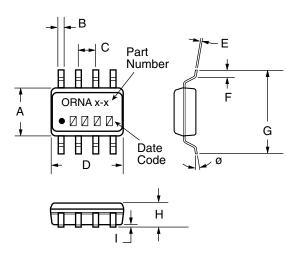
RoHS*

ORN (Divider)

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



DIMENSIONS AND IMPRINTING in inches and millimeters



MECHANICAL SPECIFICATIONS				
Resistive Element	Passivated Nichrome			
Body	Molded epoxy			
Package Format	JEDEC MS-012			
Terminals	Copper alloy			
Solderability	Per MIL-PRF-83401			
Marking Resistance to Solvents	Permanency testing per MIL-PRF-83401			
Lead (Pb)-free Option	100 % Matte Tin			
Lead (Pb)-free Finish	Plated			

DIMENSION	INCHES	MM
А	0.157	3.99
В	0.0165 ± 0.005	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°	

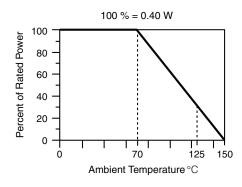
Notes

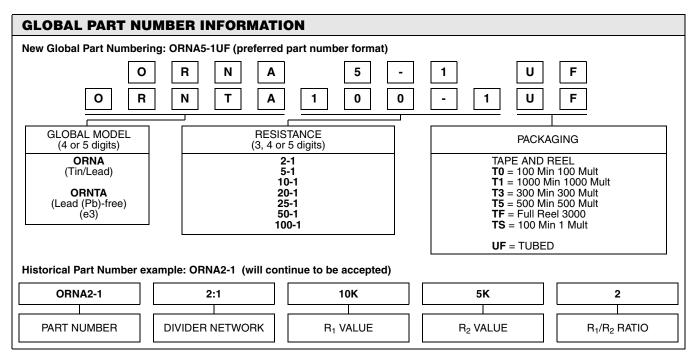
1. Leads are within 0.005" (0.13 mm) of true position

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

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

DERATING CURVE





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Vishay

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