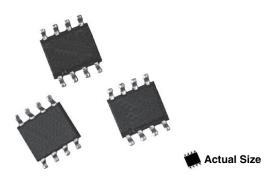


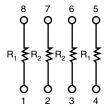
Vishay Dale Thin Film

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



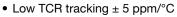
Vishay Dale Thin Film ORN series Dividers provide optimum ratio precision, small size and exceptional stability for most applications. They offer a wide ratio range that is listed in the selection guide and are available for immediate delivery. The tight ratio tolerance offered on the standard ratios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

#### **SCHEMATIC**



#### **FEATURES**

- 0.068" (1.73 mm) maximum seated height
- Rugged molded case construction with no internal solder (JEDEC MS-012 variation AA package)



- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition



COMPLIANT
HALOGEN

#### Note

\* 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 <sub>1</sub> /R <sub>2</sub> )				
RATIO	R <sub>1</sub>	R <sub>2</sub>		
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		

TECT	CDECIFICATIONS	CONDITIONS
TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	=
Pin/Lead Number	8	-
Resistance Range	1000 $\Omega$ to 100 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	± 0.1 %	+ 25 °C
Tolerance: Ratio	± 0.05 %	+ 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	-
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	$\Delta R \pm 0.002 \%$	1 year at + 25 °C

Note

Tantalum nitride film is custom, consult factory

Revision: 20-Oct-11 Document Number: 60006



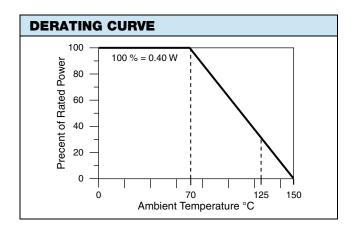
### Vishay Dale Thin Film

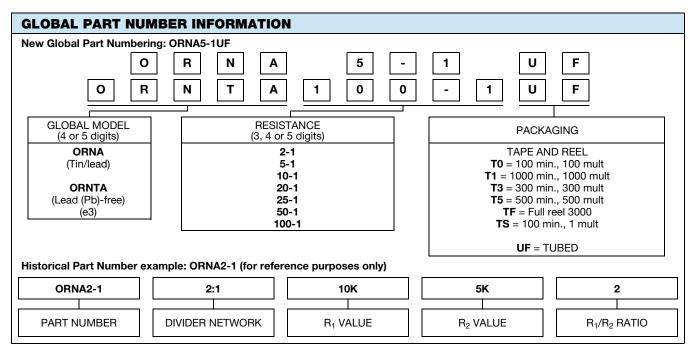
DIMENSIONS AND IMPRINTING in inches and millimeters				
B→  ← E	DIMENSION	INCHES	MILLIMETERS	
C   Part	Α	0.157	3.99	
Number Number	В	0.0165 ± 0.005	$0.4 \pm 0.06$	
ORNA x-x	С	0.050	1.27	
A OHNAXX	D	0.195 max.	4.93	
	E	0.008 ± 0.001	0.20 ± 0.03	
Code	F	0.028 ± 0.001	0.71 ± 0.02	
i i i i i i i i i i i i i i i i i i i	G	0.239 ± 0.005	6.07 ± 0.13	
<del></del>	Н	0.068 max.	1.73	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	0.008 ± 0.002	0.22 ± 0.06	
I J	Ø	2° to 6°	2° to 6°	

#### 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	





## **Legal Disclaimer Notice**



Vishay

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