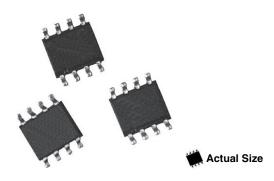


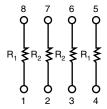
Vishay Dale Thin Film

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 FREE

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 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		

STANDARD ELECTRICAL SPECIFICATIONS				
TEST	SPECIFICATIONS	CONDITIONS		
Material	Passivated nichrome	=		
Pin/Lead Number	8	-		
Resistance Range	1000 Ω to 100 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	± 0.1 %	+ 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	ΔR ± 0.002 %	1 year at + 25 °C		

Tantalum nitride film is custom, consult factory



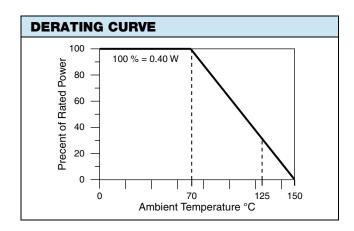
Vishay Dale Thin Film

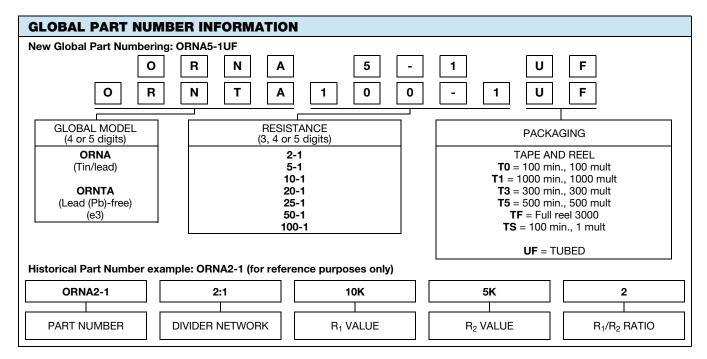
DIMENSIONS AND IMPRINTING in inches and millimeters				
B→ ← E	DIMENSION	INCHES	MILLIMETERS	
C Part	Α	0.157	3.99	
Number Number	В	0.0165 ± 0.005	0.4 ± 0.06	
ORNA x-x	С	0.050	1.27	
A OHNAX-X Date	D	0.195 max.	4.93	
	E	0.008 ± 0.001	0.20 ± 0.03	
Code	F	0.028 ± 0.001	0.71 ± 0.02	
i i i i i i i i i i i i i i i i i i i	G	0.239 ± 0.005	6.07 ± 0.13	
□ □ □ □ ↓	Н	0.068 max.	1.73	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	I	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	







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Vishay

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