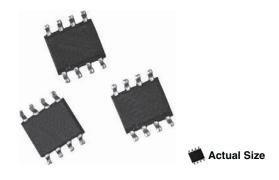
ORNV (Divider)



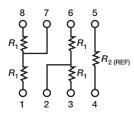
Vishay Dale Thin Film

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



Vishay Dale Thin Film ORNV series voltage 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

- Close ratio tolerance (0.05 %)
- Tight TCR tracking ± 5 ppm/°C
- 0.068" (1.73 mm) maximum seated height
- Rugged molded case construction with no internal solder (JEDEC MS-012 variation AA package)



- COMPLIANT HALOGEN
- 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

lacksquare	ABSOLUTE	TRACKING
TCR	25	5
	ABSOLUTE	RATIO
TOL.	0.1	0.05

STANDARD RESISTAN	CE OFFERING
B ₄ (O)	B ₀ (O)

R ₁ (Ω) (4 Voltage Divider Resistors)	<i>R</i> ₂ (Ω) (Reference)
	2K
2К	5K
	10K
5K, 10K, 20K, 25K, 50K	5K
	10K
	20K
	25K
	50K

Note

· Consult factory for additional values and schematics

TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin/Lead Number	8	-
Resistance Range	2 kΩ to 50 kΩ	-
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	$\Delta R \pm 0.05 \%$	2000 h at + 70 °C
Stability: Ratio	∆ <i>R</i> ± 0.015 %	2000 h at + 70 °C
Voltage Coefficient	< 0.1 ppm/V	-
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	$\Delta R \pm 0.002 \%$	1 year at + 25 °C

Revision: 01-Sep-11

Document Number: 60112

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ORNV (Divider)



www.vishay.com

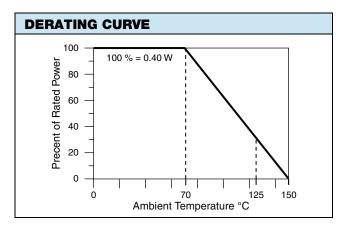
Vishay Dale Thin Film

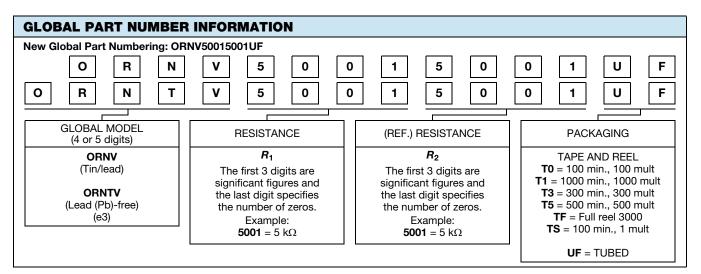
DIMENSIONS AND IMPRINTING in inches and millimeters			
B→I	DIMENSION	INCHES	MILLIMETERS
→ C → Part ↓	А	0.157	3.99
	В	0.0165 ± 0.005	0.4 ± 0.06
	С	0.050	1.27
	D	0.195 max.	4.93
	E	0.008 ± 0.001	0.20 ± 0.03
	F	0.028 ± 0.001	0.71 ± 0.02
Ø	G	0.239 ± 0.005	6.07 ± 0.13
	Н	0.068 max.	1.73
	I	0.008 ± 0.002	0.22 ± 0.06
	Ø	2° to 6°	2° to 6°

Note

• Marking - Vishay symbol, part number from ordering information

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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