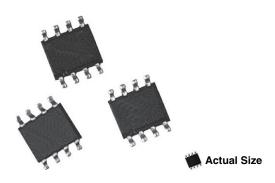


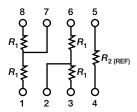
www.vishay.com Vishay Dale Thin Film

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



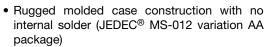
Vishay Dale Thin Film ORNV series voltage dividers provide optimum ratio precision, small size and exceptional stability for most applications. They offer a wide ratio range that is listed in the selection guide and are available for immediate delivery. The tight ratio tolerance offered on the standard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





HOHS*
Available
HALOGEN
FREE

 Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
TCR	25	5
	ABSOLUTE	RATIO
TOL.	0.1	0.05

STANDARD RESISTANCE OFFERING		
R_1 (Ω) (4 Voltage Divider Resistors)	R_2 (Ω) (Reference)	
	2K	
2K	5K	
	10K	
	5K	
	10K	
5K, 10K, 20K, 25K, 50K	20K	
	25K	
	50K	

Note

• Consult factory for additional values and schematics

STANDARD ELECTRICAL SPECIFICATIONS				
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	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		

Revision: 11-Mar-2022 1 Document Number: 60112



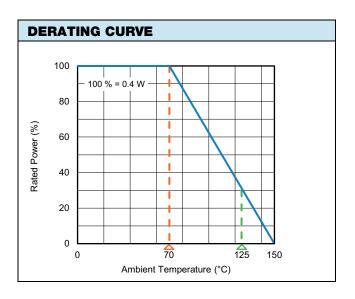
Vishay Dale Thin Film

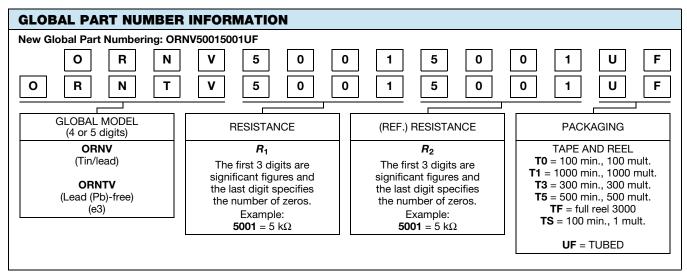
DIMENSIONS AND IMPRINTING in inches and millimeters				
B-►	DIMENSION	INCHES	MILLIMETERS	
→ C ← Part	A	0.154 ± 0.003	3.90 ± 0.09	
ORNV x-X ORN	В	0.016 ± 0.002	0.4 ± 0.06	
	С	0.050	1.27	
	D	0.193 ± 0.004	4.90 ± 0.1	
	E	0.008 ± 0.001	0.20 ± 0.03	
	F	0.032 ± 0.016	0.81 ± 0.4	
	G	0.236 ± 0.008	6.00 ± 0.2	
	Н	0.068 max.	1.73	
	I	0.007 ± 0.003	0.18 ± 0.07	
	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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