

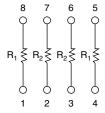


Dual Flat No Lead Molded Precision Thin Film Divider, Surface Mount Resistor Network



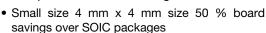
The DFN series of thin film precision dividers surface mount resistor networks offer a wide ratio range that is listed in the standard resistance offering table. The 4 mm x 4 mm 0.8 mm pitch dual flat no lead package feature 50 % savings in board space over traditional SOIC packages. The DFN dividers are ideal for applications that require tight TC tracking and ratio tolerances over temperature.

SCHEMATIC



FEATURES

- 0.8 mm lead pitch
- MSL level 1 per J-STD-020
- · Low profile 1 mm seated height



- Low TCR ± 25 ppm, TCR tracking to ± 5 ppm
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING	
TCR	25	5	
	ABSOLUTE	RATIO	
TOL.	0.1	0.05	

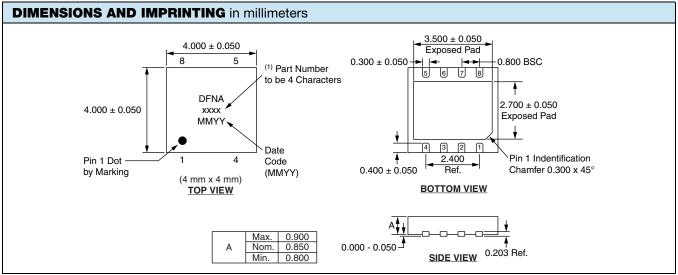
STANDARD RESISTANCE OFFERING (R ₁ /R ₂)				
RATIO	R ₁	R ₂		
100:1	100K	1K		
50:1	50K	1K		
25:1	25K	1K		
20:1	20K	1K		
10:1	10K	1K		
5:1	10K	2K		
2:1	10K	5K		

STANDARD ELECTRICAL SPECIFICATIONS			
TEST	SPECIFICATIONS	CONDITIONS	
Material	Passivated nichrome	-	
Pin/Lead Number	8	=	
Resistance Range	1000 Ω to 100 k Ω per element	=	
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	100 mW x number of resistors	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	

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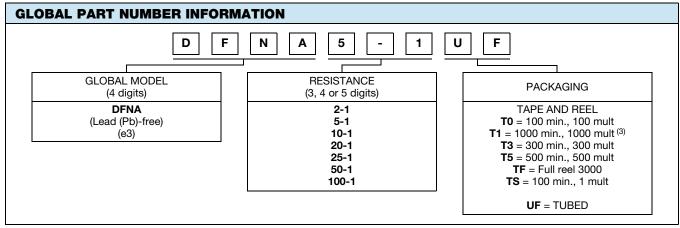
Vishay Dale Thin Film



Notes

- (1) 100-1 resistance ratio part marking to be 100-
- (2) Contact factory for package outlines for higher pin count or custom configurations

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	Ceramic	
Body	Molded epoxy	
Terminals	Copper alloy	
Plating	100 % matte tin	
Marking Resistance to Solvents	Per MIL-PRF-914	



Note

(3) Preferred packaging code



Legal Disclaimer Notice

Vishay

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