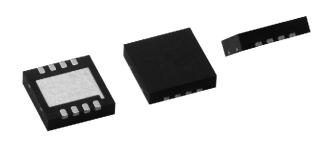
RoHS



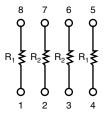
Vishay Thin Film

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



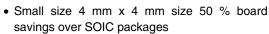
The DFN series of thin film precision dividers surface mount resistor networks offer a wide ratio range that is listed in the standard resistance offering table. The 4 mm x 4 mm 0.8 mm pitch dual flat no lead package feature 50 % savings in board space over traditional SOIC packages. The DFN dividers 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, TC tracking to ± 5 ppm
- Compliant to RoHS directive 2002/95/EC

TYPICAL PERFORMANCE

	ABS	TRACKING	
TCR	25	5	
	ABS	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		

TEST		SPECIFICATIONS	CONDITIONS
Material		Passivated nichrome	
TCR	Tracking	± 5 ppm/°C	- 55 °C to + 125 °C
	Absolute	± 25 ppm/°C	- 55 °C to + 125 °C
Tolerance	Absolute	± 0.1 %	+ 25 °C
	Ratio	± 0.05 %	+ 25 °C
Power Rating	Resistor	50 mW	Max. at + 70 °C
	Package	50 mW x number of resistors	Max. at + 70 °C
Stability	∆R Absolute	500 ppm	2000 h at + 70 °C
	∆R Ratio	150 ppm	2000 h at + 70 °C
Voltage Coefficient		< 0.1 ppm/V	
Working Voltage		50 V	
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	100 ppm	1 year at + 25 °C
	Ratio	20 ppm	1 year at + 25 °C

DFN Divider

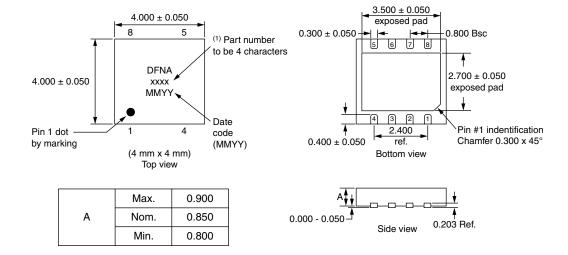
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Dual Flat No Lead

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DIMENSIONS AND IMPRINTING in millimeters



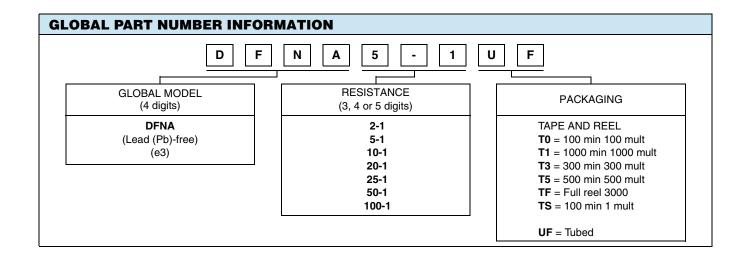


Note

(1) 100-1 resistance ratio part marking to be 100-

· Contact factory for package outlines for higher pin count or custom configurations

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	Silicon	
Body	Molded epoxy	
Terminals	Copper alloy	
Plating	100 % matte tin plating standard	
Marking resistance to solvents	Per MIL-PRF-914	





Vishay

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