

Dual Flat No Lead Precision Thin Film Resistor SMD Network



KEY BENEFITS

- Four isolated resistors: 100 Ω to 100 K
- Ratio tolerance to ± 0.025 %
- Small size: 4 mm x 4 mm
- Low profile: 1 mm maximum
- 0.8 mm terminal pitch
- Stable film and performance characteristics
 - Absolute: 500 ppm at 70 °C, 2000 h
 - Ratio: 150 ppm at 70 °C, 2000 h
- Lead (Pb)-free terminations
- Compliant to RoHS directive 2002/95/EC

APPLICATIONS

- Industrial
- Military
- Instrumentation
- Telecommunications
- Medical

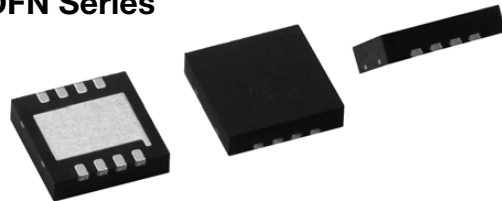
RESOURCES

- Datasheet: DFN Series - <http://www.vishay.com/doc?60109>
- Datasheet: DFN Divider - <http://www.vishay.com/doc?60110>
- For technical questions contact thinfilm@vishay.com



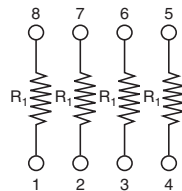
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DFN Series

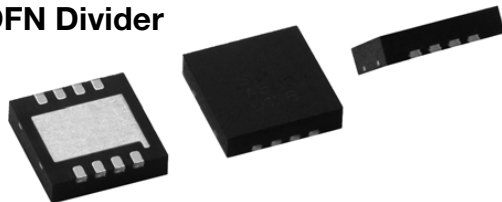


The DFN series of precision surface mount resistor networks feature isolated thin film precision resistors mounted in a 0.8 mm pitch 4 mm x 4 mm dual flat no lead package. The networks feature 50 % savings in board space over traditional SOIC packages. They are ideally suited for applications of unity gain operational amplifiers that require close TC tracking and tight ratio tolerances over temperature. Custom configurations are available upon request.

SCHEMATIC

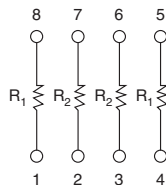


DFN Divider



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
- Small size 4 mm x 4 mm size 50 % board savings over SOIC packages
- Wide resistance range 100 Ω to 100 k Ω available
- Custom configurations available
- Low TCR ± 25 ppm, TCR tracking to ± 3 ppm
- Ratio tolerances to ± 0.025 %
- Compliant to RoHS Directive 2002/95/EC



RoHS COMPLIANT

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
	TCR	25
TOL.	ABSOLUTE	RATIO
	0.1	0.05

STANDARD RESISTANCE OFFERING ($R_1 =$)

500 Ω	10 k Ω
1 k Ω	20 k Ω
2 k Ω	50 k Ω
4.99 k Ω	100 k Ω
5 k Ω	

FEATURES

- 0.8 mm lead pitch
- MSL level 1 per J-STD-020
- Low profile 1 mm seated height
- Small size 4 mm x 4 mm size 50 % board savings over SOIC packages
- Low TCR ± 25 ppm, TCR tracking to ± 5 ppm
- Compliant to RoHS Directive 2002/95/EC



RoHS COMPLIANT

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
	TCR	25
TOL.	ABSOLUTE	RATIO
	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