

Vishay Dale Thin Film

Hermetic Flat Pack Thin Film Resistor, Surface Mount Network



Product may not be to scale

FEATURES

- Military/aerospace
- Hermetically sealed
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Note



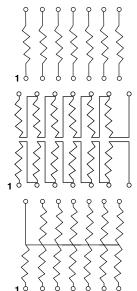
RoHS* Available HALOGEN

FREE

* 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

Vishay Dale Thin Film offers a broad line of precision resistor networks in hermetic Flat-Packs for surface mount requirements in military, space or other harsh environmental applications. These networks provide the long-term stability necessary to insure continuous specification and performance over the 20 years to 30 years life required for space applications. The fabrication of these devices is performed under tight procedural and environmental controls to insure conformance to all 883C level H or K requirements. Custom configurations, values and tolerance combinations are available with fast turnaround.

SCHEMATICS



FP200				
Number of Resistors	7, 8			
Number of Leads	14, 16			
Type Connection	Isolated			
Values Available	500 Ω to 100 kΩ			

FP201			
Number of Resistors	12, 14		
Number of Leads	14, 16		
Type Connection	Series		
Values Available	500 Ω to 100 kΩ		

FP202			
Number of Resistors	13, 15		
Number of Leads	14, 16		
Type Connection	Common		
Values Available	500 Ω to 100 kΩ		

TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin/Lead Number	14, 16	-
Resistance Range	10 Ω to 1 MΩ (total)	-
TCR: Absolute	± 10 ppm/°C to 50 ppm/°C	-
TCR: Tracking	± 5 ppm/°C (standard)	-
Tolerance: Absolute	± 0.05 % to ± 1 %	-
Tolerance: Ratio	± 0.01 % to ± 0.1 %	-
Power Rating: Resistor	100 mW	-
Power Rating: Package	800 mW	70 °C
Stability: Absolute	$\Delta R \pm 0.05 \%$	2000 h at +70 °C
Stability: Ratio	$\Delta R \pm 0.015$ %	2000 h at +70 °C
Voltage Coefficient	-	-
Working Voltage	100 V max. not to exceed $\sqrt{P} \ge R$	-
Operating Temperature Range	-55 °C to +125 °C	-
Storage Temperature Range	-55 °C to +150 °C	-
Noise	-	-
Thermal EMF	-	-
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: 16-Mar-17

1 For technical questions, contact: <u>thinfilm@vishav.com</u> Document Number: 61073

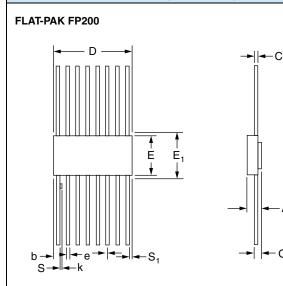
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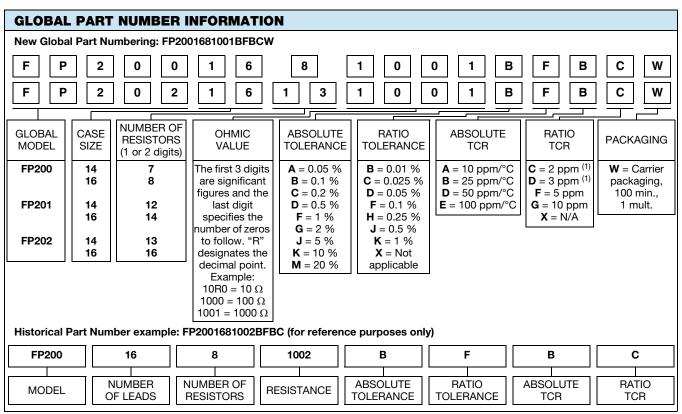
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DIMENSIONS in inches (millimeters)



n					
DIMENSION	14 L	14 LEAD		16 LEAD	
DIVIENSION	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	
A	0.086 (2.18)	0.106 (2.69)	0.045 (1.14)	0.115 (2.92)	
b	0.015 (0.38)	0.019 (0.48)	0.015 (0.38)	0.019 (0.48)	
С	0.004 (0.10)	0.007 (0.18)	0.003 (0.08)	0.009 (0.23)	
D	0.373 (9.47)	0.383 (9.73)	-	0.440 (11.18)	
е	0.047 (1.19)	0.053 (1.35)	0.050 (1.27)	BSC	
E	0.250 (6.35)	0.260 (6.60)	0.245 (6.22)	0.285 (7.24)	
E1	-	0.290 (7.37)	-	0.315 (8.00)	
E ₂	0.158 (4.01)	0.172 (4.37)	0.130 (3.30)	-	
E ₃	0.030 (0.76)	-	0.030 (0.76)	-	
L	-	-	0.250 (6.35)	0.370 (9.40)	
Q	0.026 (0.66)	-	0.26 (0.66)	0.045 (1.14)	
S	-	0.045 (1.14)	-	0.045 (1.14)	
S ₁	0.005 (0.13)	-	0.005 (0.13)	-	
k	-	-	0.008 (0.20)	0.015 (0.38)	



C

Note

(1) Value dependent

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