

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 se www.vishay.com/doc?99912



Available

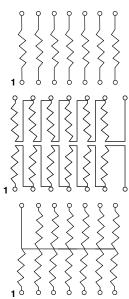
HALOGEN FREE

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

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	$500~\Omega$ to $100~k\Omega$	

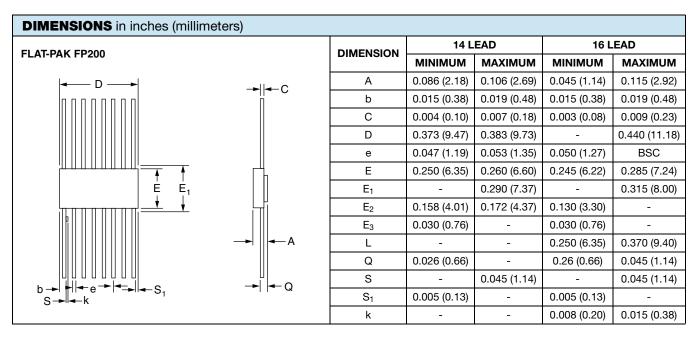
FP202		
Number of Resistors	13, 15	
Number of Leads	14, 16	
Type Connection	Common	
Values Available	500 Ω to 100 k Ω	

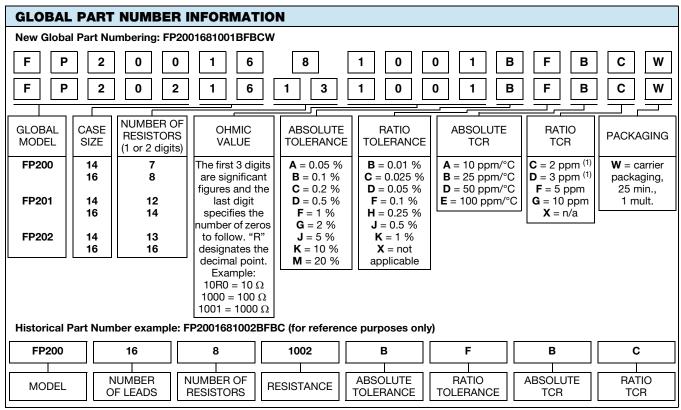
STANDARD ELECTRICAL SPECIFICATIONS		
TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin / Lead Number	14, 16	-
Resistance Range	10 Ω to 1 M Ω (total)	-
TCR: Absolute	± 10 ppm/°C to 50 ppm/°C	-
TCR: Tracking	± 5 ppm/°C (standard)	-
Tolerance: Absolute	± 0.05 % to ± 1 %	-
Tolerance: Ratio	± 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 √P x 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: 15-Mar-18 Document Number: 61073



Vishay Dale Thin Film





Note

(1) Value dependent



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.