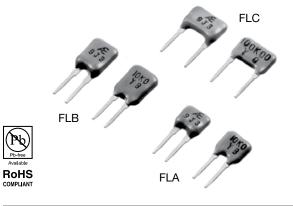
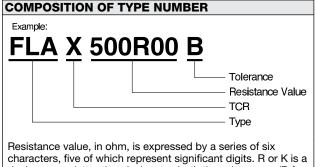
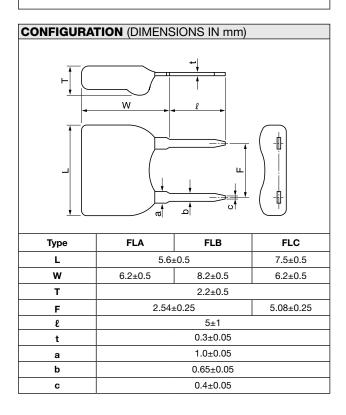


Precision Resistor (Conformally Coated)





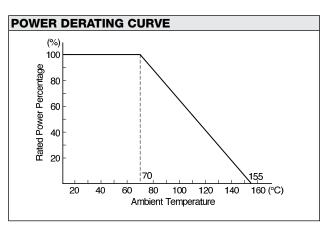
characters, five of which represent significant digits. R or K is a dual-purpose letter that designates both the value range (R for ohmic; K for kilo-ohm) and the location of decimal point.



| TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER | | | | | | | |
|--------------------------------------------------|----------------------------------------|----------------------------|-------------------------------------------|----------------------------------|--|--|--|
| Туре | TCR (ppm/°C) -25°C to +125°C* | Resistance Range (Ω) | Resistance Tolerance (%)*† | Rated Power (W) at 70°C | | | |
| FLA | 0±5 (X) 0±2.5 (Y) | 10 to 30 | ±0.5 (D) ±1.0 (F) | | | | |
| | | 30 to 100 | ±0.1 (B) ±0.5 (D) | 0.125 | | | |
| | | 100 to 100k | ±0.05 (A) ±0.1 (B) | | | | |
| FLB | 0±5 (X) 0±2.5 (Y) | 10 to 30 | ±0.5 (D) ±1.0 (F) | | | | |
| | | 30 to 100 | ±0.1 (B) ±0.5 (D) | 0.25 | | | |
| | | 100 to 150k | ±0.05 (A) ±0.1 (B) | | | | |
| | | 10 to 30 | ±0.5 (D) ±1.0 (F) | | | | |
| FLC | 0±5 (X) 0±2.5 (Y) | 30 to 100 | ±0.02 (Q) ±0.05 (A) ±0.1 (B) ±0.5 (D) | 0.25 | | | |
| | | 100 to 200k | ±0.01 (T) ±0.02 (Q) ±0.05 (A) ±0.1 (B) | | | | |

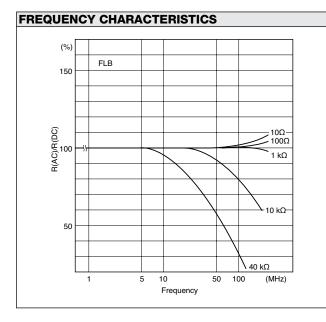
* Symbols parenthesized are for type number composition.

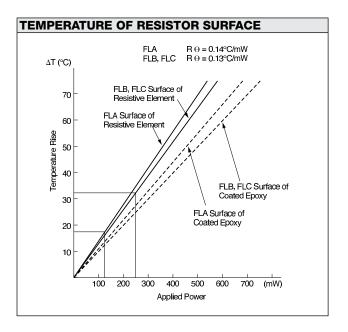
 $\dagger\,$ Resistance figures are the values obtained by measuring at the point 2.5±1.0 mm below the shoulder of leads.





| PERFORMANCE | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------|--|--|--|--|
| Parameters | Test Condition | ALPHA Specification | ALPHA Typical Test Data | | | | |
| Maximum Rated Operating Temperature Working Temperature Range Maximum Working Voltage | orking Temperature Range | | 70°C -25°C to +155°C FLA=250V, FLB/FLC=300V | | | | |
| Temperature Cycling Overload | -25°C/30 min., Room Temperature/5 min., +155°C/30 min., 5 cycles Rated Voltage x 2.5, 5 sec. | ±0.05% ±0.05% | ±0.01% ±0.0025% | | | | |
| Solderability Resistance to Solvents | 235°C, 2 sec. ● Isopropyl Alcohol ● Trichloroethylene | over 75% coverage no damage | over 75% coverage no damage | | | | |
| Low Temperature Storage Terminal Strength | -25°C, No Load, 2 hrs. 0.908 kg (2 pounds), 10 sec. | ±0.05% ±0.05% | ±0.0025% ±0.0025% | | | | |
| Dielectric Withstanding Voltage Insulation Resistance Resistance to Soldering Heat Moisture Resistance | Atmo. Pres.: AC 300V, 1 min. DC 100V, 1 min. 350°C, 3 sec. +65°C to -10°C, 90% RH to 98% RH, Rated Voltage,10 cycles (240 hrs.) | ±0.03% over 10,000 MΩ ±0.03% ±0.1% | ±0.0025% over 10,000 MΩ ±0.0025% ±0.015% | | | | |
| Shock Vibration | 50G, 11 ms, Half-Sine Wave, X, Y, Z, each 3 shocks 20G, 10 Hz to 55 Hz to 10 Hz, 1 min., X, Y, Z, each 2 hrs. | ±0.03% ±0.03% | ±0.005% ±0.005% | | | | |
| Life (Rated Load) | 70°C, Rated Power, 1.5 hr. – ON, 0.5 hr. – OFF, 1,000 hrs. | ±0.1% | ±0.01% | | | | |
| Life (Moisture Load) 40°C, 90% RH to 95% RH, Rated Power, 1.5 hr. – ON, 0.5 hr. – OFF, 1,000 hrs. | | ±0.05% | ±0.01% | | | | |
| Storage Life | 15°C to 35°C, 15% RH to 75% RH, No Load, 10,000 hrs. | ±0.02% | ±0.005% | | | | |
| High Temperature Exposure | 155°C, No Load, 1,000 hrs. | ±0.05% | ±0.01% | | | | |
| Current Noise Pressure Cooker Test | 121°C, 100% RH, 2 atmospheric, No Load, 100 hrs. | -25 dB ±0.5% | -42 dB ±0.1% | | | | |







Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. To the maximum extent permitted by applicable law, VPG 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.

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. 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. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Vishay Precision Group:

| FLAY1K0000A FLAY2K0000A FLAX100R00A | FLAX100R00F | FLAX10K000F | FLAX10R000D | FLCY9K0000B |
|-------------------------------------|-------------|-------------|-------------|-------------|
| FLCY80K000B FLCY87R238B FLCY8K0000B | FLCY900R00B | FLCY90K000B | FLCY90R000B | FLCY5K0000F |
| FLCY600R00B FLCY6K0000B FLCY70K000B | FLCY7K0000B | FLCY800R00B | FLCY50K000B | FLCY50R000B |
| FLCY50R000Q FLCY58R071B FLCY5K0000A | FLCY5K0000B | FLCY40K000B | FLCY43R488B | FLCY4K0000B |
| FLCY500R00A FLCY500R00B FLCY50K000A | FLCY300R00B | FLCY30R000B | FLCY30R000F | FLCY349R74A |
| FLCY3K0000B FLCY400R00B FLCY250R00B | FLCY25K000B | FLCY28R904B | FLCY2K0000A | FLCY2K0000B |
| FLCY2K5000B FLCY200R00B FLCY20K000A | FLCY20K000B | FLCY20K000F | FLCY20R000B | FLCY22K000B |
| FLCY174R74A FLCY17R238B FLCY1K0000A | FLCY1K0000B | FLCY1K0000F | FLCY1K8000F | FLCY120R00A |
| FLCY120R00B FLCY130K00Q FLCY13K000A | FLCY13K000B | FLCY15K000B | FLCY10K000A | FLCY10K000B |
| FLCY10K000F FLCY10K500B FLCY10R000B | FLCY11K050B | FLCX9K0000Q | FLCX9K0900F | FLCY100K00B |
| FLCY100K00F FLCY100R00A FLCY100R00B | FLCX900R00Q | FLCX909R00F | FLCX90K000Q | FLCX90K900F |
| FLCX90R000Q FLCX953R00F FLCX59K000F | FLCX5K6200F | FLCX6K1900F | FLCX75K000F | FLCX7K5000F |
| FLCX8K2500F FLCX42K200F FLCX49K900F | FLCX4K5300F | FLCX50K000Q | FLCX51K100F | FLCX56K200F |
| FLCX2K0000Q FLCX30R000Q FLCX3K4800F | FLCX3K6500F | FLCX3K9200F | FLCX40K200F | FLCX20K000F |
| FLCX20K500F FLCX243R00F | | | | |