



# CERTIFICATE OF PRODUCT CERTIFICATION

CERTIFICATE NO.: CQC14001111567

Valid from: Jul.26,2023

Valid until:Nov.29,2027

**NAME AND REGISTERED ADDRESS OF THE APPLICANT** GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD. XIANHUA NEW SENSITIVE COMPONENTS BRANCH  
3 workshop 2 floor , Fenghua Electronic Industrial City, No. 18 Fenghua Road, Duanzhou District,Zhaoqing city,Guangdong province China

**NAME AND REGISTERED ADDRESS OF THE MANUFACTURER** Guangdong Fenghua Advanced Technology (Holding) Co.,Ltd  
Warehouse Building. 18th fenghua road. Zhaoqing City. Guangdong Province.China.

**NAME AND LOCATION OF THE FACTORY** GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD. XIANHUA NEW SENSITIVE COMPONENTS BRANCH  
3 workshop 1-2 floor , Fenghua Electronic Industrial City, No. 18 Fenghua Road, Duanzhou District,Zhaoqing city,Guangdong province China

**PRODUCT NAME, MODEL AND SPECIFICATION** zinc oxide varistor  
FNR-20H(180 ~ 112)K pressure-sensitive voltage: 18V ~ 1100V; Maximum continuous AC voltage: 11VAC ~ 680VAC; The climate category is 40/125/42. FNR-20C(271 ~ 102)K pressure-sensitive voltage: 270V ~ 1000V; Maximum continuous AC voltage: 175VAC ~ 625VAC; The climate category is 40/105/42. FNR20K(180 ~ 182) pressure-sensitive voltage: 18V ~ 1800V; Maximum continuous AC voltage: 11VAC ~ 1000VAC; The climate category is 40/105/21. The allowable deviation of the pressure-sensitive voltage is K:  $\pm 10\%$ ; [Models FNR-20H(180-181)K, FNR20K(180-391) varistors are only applicable to GB/T 10193-1997, GB/T 10194-1997] See the attachment for details.

**THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS** GB/T 10193-1997;GB/T 10194-1997;GB 4943.1-2022;IEC 61051-2:1991+Amd1:2009

**TYPE OF CERTIFICATION SCHEMES** Type Testing of Product + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC11-471551-2022.

Date of original issued: Jun.18,2014

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)



SIGNATURE:

谢肇煦



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paper:

This certificate and attachments shall be used at the same time, and the verification instructions can be found in the main certificate.

| 型号规格        | 最大连续<br>交流电压<br>A • Cr. m. s<br>(V) | 最大连续直<br>流电压<br>DC (V) | 压敏电压<br>(V) | 脉冲电流<br>(8/20 μs),<br>1次 | 标准   |
|-------------|-------------------------------------|------------------------|-------------|--------------------------|--|
| FNR-20H180K | 11                                  | 14                     | 18          | 2000                     | GB/T 10193-1997,<br>GB/T 10194-1997  |
| FNR-20H220K | 14                                  | 18                     | 22          | 2000                     |  |
| FNR-20H270K | 17                                  | 22                     | 27          | 2000                     |  |
| FNR-20H330K | 20                                  | 26                     | 33          | 2000                     |  |
| FNR-20H390K | 25                                  | 31                     | 39          | 2000                     |  |
| FNR-20H470K | 30                                  | 38                     | 47          | 2000                     |  |
| FNR-20H560K | 35                                  | 45                     | 56          | 2000                     |  |
| FNR-20H680K | 40                                  | 56                     | 68          | 2000                     |  |
| FNR-20H820K | 50                                  | 65                     | 82          | 6500                     |  |
| FNR-20H101K | 60                                  | 85                     | 100         | 6500                     |  |
| FNR-20H121K | 75                                  | 100                    | 120         | 6500                     |  |
| FNR-20H151K | 95                                  | 125                    | 150         | 6500                     |  |
| FNR-20H181K | 115                                 | 150                    | 180         | 6500                     |  |
| FNR-20H201K | 130                                 | 170                    | 200         | 6500                     |  |
| FNR-20H221K | 140                                 | 180                    | 220         | 6500                     |  |
| FNR-20H241K | 150                                 | 200                    | 240         | 6500                     |  |
| FNR-20H271K | 175                                 | 225                    | 270         | 6500                     |  |
| FNR-20H301K | 195                                 | 250                    | 300         | 6500                     |  |
| FNR-20H331K | 210                                 | 275                    | 330         | 6500                     |  |
| FNR-20H361K | 230                                 | 300                    | 360         | 6500                     |  |
| FNR-20H391K | 250                                 | 320                    | 390         | 6500                     |  |
| FNR-20H431K | 275                                 | 350                    | 430         | 6500                     |  |
| FNR-20H471K | 300                                 | 385                    | 470         | 6500                     |  |
|             |                                     |                        |             |                          | GB/T 10193-1997,<br>GB/T 10194-1997,<br>GB 4943.1-2022,<br>IEC<br>61051-2:1991+Amd1<br>:2009 |



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|             |     |     |      |      |
|-------------|-----|-----|------|------|
| FNR-20H511K | 320 | 410 | 510  | 6500 |
| FNR-20H561K | 350 | 455 | 560  | 6500 |
| FNR-20H621K | 385 | 505 | 620  | 6500 |
| FNR-20H681K | 420 | 560 | 680  | 6500 |
| FNR-20H751K | 460 | 615 | 750  | 6500 |
| FNR-20H781K | 485 | 640 | 780  | 6500 |
| FNR-20H821K | 510 | 670 | 820  | 6500 |
| FNR-20H911K | 550 | 745 | 910  | 6500 |
| FNR-20H102K | 625 | 825 | 1000 | 6500 |
| FNR-20H112K | 680 | 895 | 1100 | 6500 |

| 型号规格        | 最大连续<br>交流电压<br>A • Cr. m. s<br>(V) | 最大连续直<br>流电压<br>DC (V) | 压敏电压<br>(V) | 脉冲电流<br>(8/20 μs),<br>1次 | 标准   |
|-------------|-------------------------------------|------------------------|-------------|--------------------------|--|
| FNR-20C271K | 175                                 | 225                    | 270         | 6500                     | GB/T 10193-1997,<br>GB/T 10194-1997,<br>GB 4943.1-2022,<br>IEC<br>61051-2:1991+Amd1:<br>2009 |
| FNR-20C301K | 195                                 | 250                    | 300         | 6500                     |  |
| FNR-20C331K | 215                                 | 275                    | 330         | 6500                     |  |
| FNR-20C361K | 230                                 | 300                    | 360         | 6500                     |  |
| FNR-20C391K | 250                                 | 320                    | 390         | 6500                     |  |
| FNR-20C431K | 275                                 | 350                    | 430         | 6500                     |  |
| FNR-20C471K | 300                                 | 385                    | 470         | 6500                     |  |
| FNR-20C511K | 320                                 | 410                    | 510         | 6500                     |  |
| FNR-20C561K | 350                                 | 455                    | 560         | 6500                     |  |
| FNR-20C621K | 385                                 | 505                    | 620         | 6500                     |  |
| FNR-20C681K | 420                                 | 560                    | 680         | 6500                     |  |
| FNR-20C751K | 460                                 | 615                    | 750         | 6500                     |  |



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|             |          |  |      |                                      |  |
|-------------|----------|--|------|--------------------------------------|--|
| FNR-20C781K | 485      | 640                                    | 780  | 6500                                 |  |
| FNR-20C821K | 510      | 670                                    | 820  | 6500                                 |  |
| FNR-20C911K | 550      | 745                                    | 910  | 6500                                 |  |
| FNR-20C102K | 625      | 825                                    | 1000 | 6500                                 |  |
| 型号规格        | 压敏电压 (V) | 最大连续交流电压<br>A • C <sub>r.m.s</sub> (V) |      | 标准                                   |  |
| FNR20K180   | 18       | 11                                     |      | GB/T 10193-1997<br>GB/T 10194-1997   |  |
| FNR20K220   | 22       | 14                                     |      |                                      |  |
| FNR20K270   | 27       | 17                                     |      |                                      |  |
| FNR20K330   | 33       | 20                                     |      |                                      |  |
| FNR20K390   | 39       | 25                                     |      |                                      |  |
| FNR20K470   | 47       | 30                                     |      |                                      |  |
| FNR20K560   | 56       | 35                                     |      |                                      |  |
| FNR20K680   | 68       | 40                                     |      |                                      |  |
| FNR20K820   | 82       | 50                                     |      |                                      |  |
| FNR20K101   | 100      | 60                                     |      |                                      |  |
| FNR20K121   | 120      | 75                                     |      |                                      |  |
| FNR20K151   | 150      | 95                                     |      |                                      |  |
| FNR20K181   | 180      | 115                                    |      |                                      |  |
| FNR20K201   | 200      | 130                                    |      |                                      |  |
| FNR20K221   | 220      | 140                                    |      |                                      |  |
| FNR20K241   | 240      | 150                                    |      |                                      |  |
| FNR20K271   | 270      | 175                                    |      |                                      |  |
| FNR20K301   | 300      | 200                                    |      |                                      |  |
| FNR20K331   | 330      | 210                                    |      |                                      |  |
| FNR20K361   | 360      | 230                                    |      |                                      |  |
| FNR20K391   | 390      | 250                                    |      |                                      |  |
| FNR20K431   | 430      | 275                                    |      | GB/T 10193-1997, GB/T<br>10194-1997, |  |
| FNR20K471   | 470      | 300                                    |      |                                      |  |



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|-----------|------|------|--|
| FNR20K511 | 510  | 320  | GB 4943.1-2022,<br>IEC<br>61051-2:1991+Amd1:2009 |
| FNR20K561 | 560  | 350  |  |
| FNR20K621 | 620  | 385  |  |
| FNR20K681 | 680  | 420  |  |
| FNR20K751 | 750  | 460  |  |
| FNR20K781 | 780  | 485  |  |
| FNR20K821 | 820  | 510  |  |
| FNR20K911 | 910  | 550  |  |
| FNR20K102 | 1000 | 625  |  |
| FNR20K112 | 1100 | 680  |  |
| FNR20K182 | 1800 | 1000 |  |



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