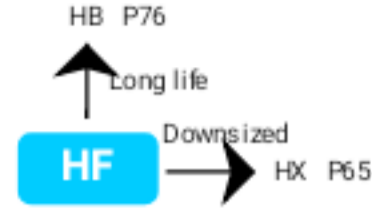


# HF 系列 SERIES

Standard

RoHS

- 105度标准品  
105°C Standard
- 保证105°C、2000小时寿命。(叠加纹波电流)  
Endurance with ripple current: 2000 hours at 105°C
- 额定工作电压范围: 16V ~ 600V  
Rated voltage range: 16V-600V



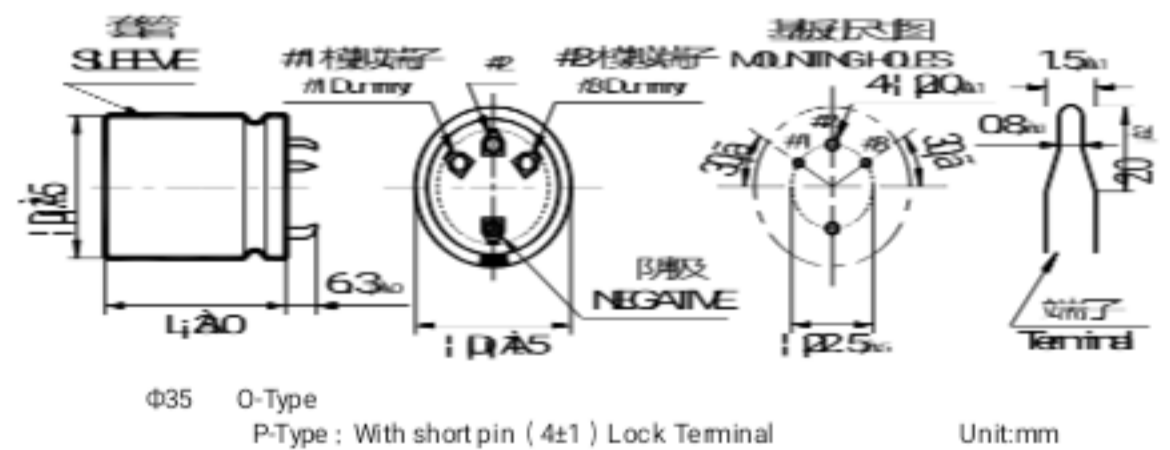
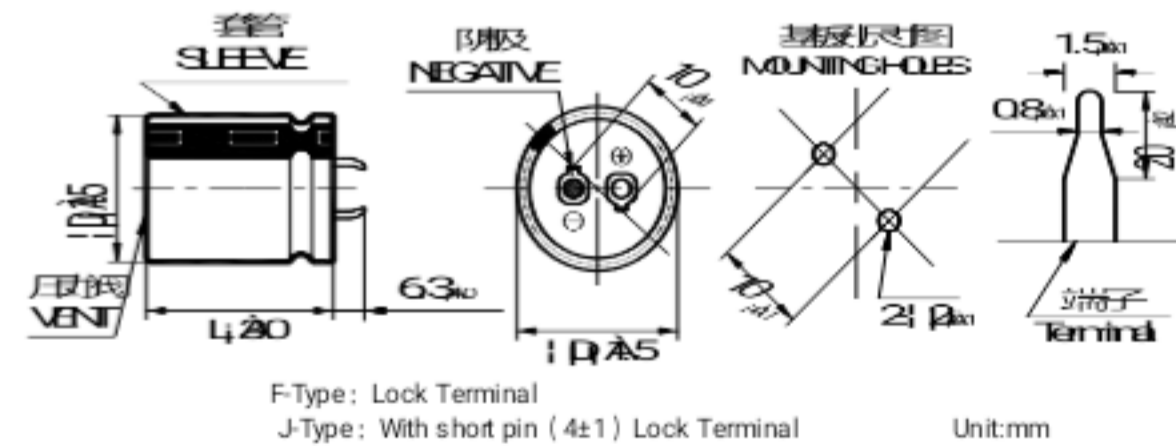
## 规格表 SPECIFICATIONS

| 项目<br>Items                                       | 特性<br>Characteristics   |               |                    |          |           |           |      |           |           |  |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
|---|---|---------------|--------------------|----------|-----------|-----------|------|-----------|-----------|--|-----------|-----------|-----------|------|------|------|--|------|------|------|------|------|------|------|
| 工作温度范围<br>Operating Temperature Range             | - 40 ~ +105°C   | - 25 ~ +105°C |                    |          |           |           |      |           |           |  |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
| 额定工作电压范围<br>Rated Working Voltage Range           | 16 ~ 100V   | 160 ~ 600V    |                    |          |           |           |      |           |           |  |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
| 静电容量允许偏差<br>Capacitance Tolerance                 | ±20% (20°C, 120Hz)  |               |                    |          |           |           |      |           |           |  |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
| 损耗角正切值<br>Dissipation Factor (MAX)<br>20°C, 120Hz | <table border="1"> <tr> <td>U<sub>R</sub>(V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>160 ~ 315</td> <td>350 ~ 400</td> <td>450 ~ 600</td> </tr> <tr> <td>tanδ</td> <td>0.50</td> <td>0.45</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.18</td> <td>0.20</td> </tr> </table>                                   |               | U <sub>R</sub> (V) | 16       | 25        | 35        | 50   | 63        | 80        | 100                                    | 160 ~ 315 | 350 ~ 400 | 450 ~ 600 | tanδ | 0.50 | 0.45 | 0.40                                   | 0.35 | 0.30 | 0.25 | 0.20 | 0.15 | 0.18 | 0.20 |
| U <sub>R</sub> (V)                                | 16  | 25            | 35                 | 50       | 63        | 80        | 100  | 160 ~ 315 | 350 ~ 400 | 450 ~ 600                              |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
| tanδ  | 0.50  | 0.45          | 0.40               | 0.35     | 0.30      | 0.25      | 0.20 | 0.15      | 0.18      | 0.20                                   |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
| 阻抗比<br>Impedance Ratio (MAX) 120Hz                | <table border="1"> <tr> <td>U<sub>R</sub>(V)</td> <td>16 ~ 100</td> <td>160 ~ 200</td> <td>250</td> <td>315</td> <td>350 ~ 400</td> <td>450 ~ 600</td> </tr> <tr> <td>Z<sub>-25°C</sub>/Z<sub>+20°C</sub></td> <td>4</td> <td>3</td> <td>4</td> <td>7</td> <td>7</td> <td>8</td> </tr> <tr> <td>Z<sub>-40°C</sub>/Z<sub>+20°C</sub></td> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |               | U <sub>R</sub> (V) | 16 ~ 100 | 160 ~ 200 | 250       | 315  | 350 ~ 400 | 450 ~ 600 | Z <sub>-25°C</sub> /Z <sub>+20°C</sub> | 4         | 3         | 4         | 7    | 7    | 8    | Z <sub>-40°C</sub> /Z <sub>+20°C</sub> | 18   |      |      |      |      |      |      |
| U <sub>R</sub> (V)                                | 16 ~ 100  | 160 ~ 200     | 250                | 315      | 350 ~ 400 | 450 ~ 600 |      |           |           |  |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
| Z <sub>-25°C</sub> /Z <sub>+20°C</sub>            | 4   | 3             | 4                  | 7        | 7         | 8         |      |           |           |  |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
| Z <sub>-40°C</sub> /Z <sub>+20°C</sub>            | 18  |               |                    |          |           |           |      |           |           |  |           |           |           |      |      |      |  |      |      |      |      |      |      |      |
| 漏电流<br>Leakage Current (MAX)                      | I = 0.01C <sub>R</sub> U <sub>R</sub> 或1.5mA取小者 (20°C, 施加额定电压5分钟后)<br>I = 0.01C <sub>R</sub> U <sub>R</sub> or 1.5mA whichever is minimum. (at 20°C, After 5 minutes application of rated voltage)<br>I = 漏电流 (µA)                      U <sub>R</sub> = 额定电压 (V)                      C <sub>R</sub> = 静电容量 (µF)<br>Leakage Current                      Rated Voltage                      Rated Capacitance        |               |                    |          |           |           |      |           |           |  |           |           |           |      |      |      |  |      |      |      |      |      |      |      |

|   | 使用寿命<br>Useful Life   | 负荷寿命<br>Load Life  | 耐久性特性<br>Endurance Test                         | 高温无负荷特性<br>Shelf Life                                 |
|---|---|--|---|---|
| 产品寿命<br>Life Time   | 4000h   | >180000h   | 2000h   | 1000h   |
| 漏电流<br>Leakage Current  | ≤规定值<br>≤Specified value                                      | ≤规定值<br>≤Specified value   | ≤规定值<br>≤Specified value                        | ≤规定值<br>≤Specified value                              |
| 损耗角正切值变化率<br>tanδ Change  | ≤规定值的300%<br>≤300% of specified value                         | ≤规定值的200%<br>≤200% of specified value                            | ≤规定值的200%<br>≤200% of specified value           | ≤规定值的200%<br>≤200% of specified value                 |
| 静电容量变化率<br>Capacitance Change   | 初始值±30%以内<br>Within±30% of initial value                      | 初始值±20%以内<br>Within±20% of initial value                         | 初始值±20%以内<br>Within±20% of initial value        | 初始值±20%以内<br>Within±20% of initial value              |
| 施加条件 Condition<br>施加电压 Applied Voltage<br>施加纹波电流 Applied Ripple Current<br>环境温度 Applied Temperature<br>失效率等级 Failure Rate Level | U <sub>R</sub><br>I <sub>R</sub><br>105°C<br>≤1% Failure rate | U <sub>R</sub><br>1.4×I <sub>R</sub><br>40°C<br>≤1% Failure rate | U <sub>R</sub><br>I <sub>R</sub><br>105°C<br>0% | U <sub>R</sub> =0<br>I <sub>R</sub> =0<br>105°C<br>0% |

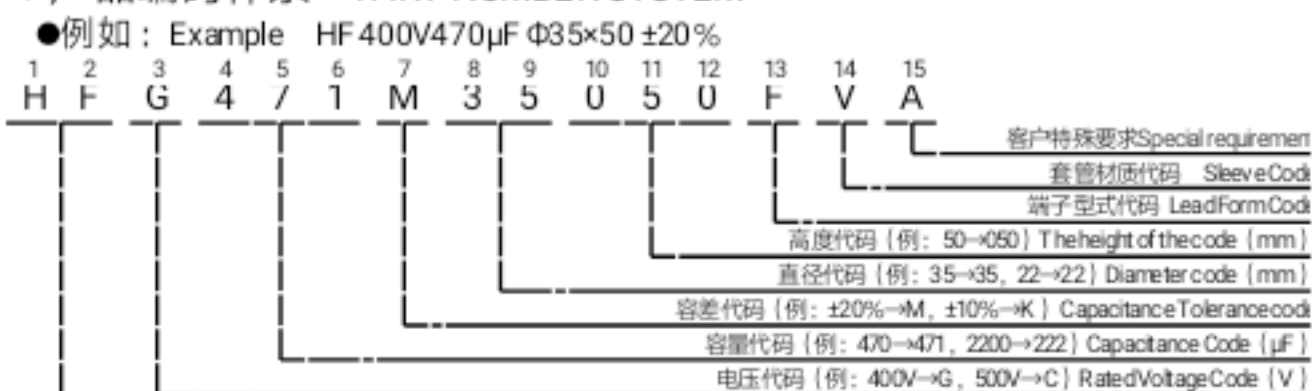
## 尺寸图 Dimensions

- 常用端子型式代码: Terminal Code



- 记载以外的端子形状, 请另行咨询。Please consult to us for the terminal type not displayed in content.

## 产品编码体系 PART NUMBER SYSTEM



## 纹波电流修正系数 Rated Ripple Current Multiplies

● 频率修正系数 Frequency Coefficient

| 电压范围 (v)<br>Rated voltage | 频率 (Hz)<br>Frequency | 50 (60) | 100 (120) | 300  | 1k   | ≥10k |
|---------------------------|----------------------|---------|-----------|------|------|------|
| 16 ~ 50WV                 |                      | 0.90    | 1.00      | 1.10 | 1.15 | 1.15 |
| 63 ~ 100WV                |                      | 0.85    | 1.00      | 1.17 | 1.32 | 1.45 |
| 160 ~ 600WV               |                      | 0.80    | 1.00      | 1.16 | 1.30 | 1.41 |

● 温度修正系数 Temperature coefficient

| 电压范围 (v)<br>Rated voltage | 温度 (°C)<br>Temperature | +40 | +55 | +70 | +85 | +105 |
|---------------------------|------------------------|-----|-----|-----|-----|------|
| 16 ~ 600WV                |                        | 2.7 | 2.5 | 2.1 | 1.7 | 1.0  |

# HF 系列 SERIES

## ◆ 产品一览表 Standard Ratings

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple Curr<br>ent<br>105°C/120Hz<br>(A rms) | Catalog Part Number |
|--|-------------|---------------------|--------------------|--|---------------------|
| 16<br>(20)                                 | 6800        | 22×25               | 0.50               | 1.61   | HFV682M22025□□VA    |
|  | 8200        | 22×25               | 0.50               | 1.76   | HFV822M22025□□VA    |
|  | 10000       | 22×35               | 0.50               | 2.14   | HFV103M22035□□VA    |
|  | 10000       | 22×30               | 0.50               | 2.00   | HFV103M22030□□VA    |
|  | 10000       | 25×25               | 0.50               | 2.00   | HFV103M25025□□VA    |
|  | 12000       | 22×35               | 0.50               | 2.28   | HFV123M22035□□VA    |
|  | 12000       | 25×30               | 0.50               | 2.30   | HFV123M25030□□VA    |
|  | 12000       | 30×25               | 0.50               | 2.38   | HFV123M30025□□VA    |
|  | 15000       | 22×40               | 0.50               | 2.64   | HFV153M22040□□VA    |
|  | 15000       | 25×30               | 0.50               | 2.51   | HFV153M25030□□VA    |
|  | 15000       | 30×25               | 0.50               | 2.66   | HFV153M30025□□VA    |
|  | 18000       | 22×45               | 0.50               | 2.98   | HFV183M22045□□VA    |
|  | 18000       | 25×35               | 0.50               | 3.00   | HFV183M25035□□VA    |
|  | 18000       | 30×30               | 0.50               | 3.00   | HFV183M30030□□VA    |
|  | 18000       | 35×25               | 0.50               | 3.10   | HFV183M35025□□VA    |
|  | 22000       | 25×40               | 0.50               | 3.23   | HFV223M25040□□VA    |
|  | 22000       | 30×35               | 0.50               | 3.39   | HFV223M30035□□VA    |
|  | 22000       | 35×25               | 0.50               | 3.43   | HFV223M35025□□VA    |
|  | 27000       | 25×50               | 0.50               | 3.81   | HFV273M25050□□VA    |
|  | 27000       | 30×35               | 0.50               | 4.08   | HFV273M30035□□VA    |
|  | 27000       | 35×30               | 0.50               | 3.74   | HFV273M35030□□VA    |
|  | 33000       | 30×45               | 0.50               | 4.30   | HFV333M30045□□VA    |
|  | 33000       | 35×35               | 0.50               | 4.24   | HFV333M35035□□VA    |
|  | 39000       | 30×50               | 0.50               | 4.74   | HFV393M30050□□VA    |
|  | 39000       | 35×35               | 0.50               | 4.70   | HFV393M35035□□VA    |
|  | 47000       | 30×55               | 0.50               | 5.30   | HFV473M30055□□VA    |
|  | 47000       | 35×40               | 0.50               | 5.27   | HFV473M35040□□VA    |
|  | 56000       | 30×60               | 0.50               | 5.90   | HFV563M30060□□VA    |
|  | 56000       | 35×45               | 0.50               | 5.80   | HFV563M35045□□VA    |
|  | 68000       | 35×55               | 0.50               | 6.20   | HFV683M35055□□VA    |
| 82000                                      | 35×60       | 0.50                | 6.30               | HFV823M35060□□VA                             |                     |
|  | 4700        | 22×25               | 0.45               | 1.55   | HFU472M22025□□VA    |
|  | 5600        | 22×30               | 0.45               | 1.75   | HFU562M22030□□VA    |
|  | 6800        | 22×30               | 0.45               | 1.91   | HFU682M22030□□VA    |
|  | 6800        | 25×25               | 0.45               | 1.90   | HFU682M25025□□VA    |
|  | 8200        | 22×35               | 0.45               | 2.14   | HFU822M22035□□VA    |
|  | 8200        | 25×30               | 0.45               | 2.16   | HFU822M25030□□VA    |
|  | 8200        | 30×25               | 0.45               | 2.25   | HFU822M30025□□VA    |
|  | 10000       | 22×40               | 0.45               | 2.40   | HFU103M22040□□VA    |
|  | 10000       | 25×35               | 0.45               | 2.44   | HFU103M25035□□VA    |
|  | 10000       | 30×25               | 0.45               | 2.41   | HFU103M30025□□VA    |
|  | 12000       | 22×45               | 0.45               | 2.69   | HFU123M22045□□VA    |
|  | 12000       | 25×40               | 0.45               | 2.74   | HFU123M25040□□VA    |
|  | 12000       | 30×30               | 0.45               | 2.70   | HFU123M30030□□VA    |
|  | 12000       | 35×25               | 0.45               | 2.80   | HFU123M35025□□VA    |
|  | 15000       | 25×45               | 0.45               | 3.15   | HFU153M25045□□VA    |
|  | 15000       | 30×35               | 0.45               | 3.13   | HFU153M30035□□VA    |
|  | 15000       | 35×25               | 0.45               | 3.20   | HFU153M35025□□VA    |
|  | 18000       | 25×50               | 0.45               | 3.54   | HFU183M25050□□VA    |
|  | 18000       | 30×40               | 0.45               | 3.58   | HFU183M30040□□VA    |
|  | 18000       | 35×30               | 0.45               | 3.55   | HFU183M35030□□VA    |
|  | 22000       | 30×45               | 0.45               | 4.24   | HFU223M30045□□VA    |
|  | 22000       | 35×35               | 0.45               | 4.00   | HFU223M35035□□VA    |
|  | 27000       | 30×50               | 0.45               | 4.75   | HFU273M30050□□VA    |
|  | 27000       | 35×40               | 0.45               | 4.70   | HFU273M35040□□VA    |
|  | 33000       | 30×60               | 0.45               | 5.39   | HFU333M30060□□VA    |
|  | 33000       | 35×45               | 0.45               | 5.35   | HFU333M35045□□VA    |
|  | 39000       | 35×50               | 0.45               | 5.70   | HFU393M35050□□VA    |
|  | 47000       | 35×60               | 0.45               | 6.20   | HFU473M35060□□VA    |

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple Curr<br>ent<br>105°C/120Hz<br>(A rms) | Catalog Part Number |                  |
|--|-------------|---------------------|--------------------|--|---------------------|------------------|
| 35<br>(44)                                 | 2700        | 22×25               | 0.40               | 1.20   | HFT272M22025□□VA    |                  |
|  | 3300        | 22×30               | 0.40               | 1.52   | HFT332M22030□□VA    |                  |
|  | 3300        | 25×25               | 0.40               | 1.50   | HFT332M25025□□VA    |                  |
|  | 3900        | 22×30               | 0.40               | 1.65   | HFT392M22030□□VA    |                  |
|  | 3900        | 25×25               | 0.40               | 1.61   | HFT392M25025□□VA    |                  |
|  | 4700        | 22×35               | 0.40               | 1.95   | HFT472M22035□□VA    |                  |
|  | 4700        | 25×30               | 0.40               | 1.92   | HFT472M25030□□VA    |                  |
|  | 4700        | 30×25               | 0.40               | 1.90   | HFT472M30025□□VA    |                  |
|  | 5600        | 22×40               | 0.40               | 2.14   | HFT562M22040□□VA    |                  |
|  | 5600        | 25×30               | 0.40               | 2.05   | HFT562M25030□□VA    |                  |
|  | 5600        | 30×25               | 0.40               | 2.13   | HFT562M30025□□VA    |                  |
|  | 6800        | 22×45               | 0.40               | 2.30   | HFT682M22045□□VA    |                  |
|  | 6800        | 25×35               | 0.40               | 2.32   | HFT682M25035□□VA    |                  |
|  | 6800        | 30×30               | 0.40               | 2.35   | HFT682M30030□□VA    |                  |
|  | 6800        | 35×25               | 0.40               | 2.33   | HFT682M35025□□VA    |                  |
|  | 8200        | 22×50               | 0.40               | 2.68   | HFT822M22050□□VA    |                  |
|  | 8200        | 25×40               | 0.40               | 2.62   | HFT822M25040□□VA    |                  |
|  | 8200        | 30×30               | 0.40               | 2.60   | HFT822M30030□□VA    |                  |
|  | 8200        | 35×25               | 0.40               | 2.79   | HFT822M35025□□VA    |                  |
|  | 10000       | 25×45               | 0.40               | 2.92   | HFT103M25045□□VA    |                  |
|  | 10000       | 30×35               | 0.40               | 2.95   | HFT103M30035□□VA    |                  |
|  | 10000       | 35×30               | 0.40               | 2.98   | HFT103M35030□□VA    |                  |
|  | 12000       | 25×50               | 0.40               | 3.26   | HFT123M25050□□VA    |                  |
|  | 12000       | 30×40               | 0.40               | 3.28   | HFT123M30040□□VA    |                  |
|  | 12000       | 35×30               | 0.40               | 3.22   | HFT123M35030□□VA    |                  |
|  | 15000       | 30×45               | 0.40               | 3.74   | HFT153M30045□□VA    |                  |
|  | 15000       | 35×35               | 0.40               | 3.70   | HFT153M35035□□VA    |                  |
|  | 18000       | 30×50               | 0.40               | 4.20   | HFT183M30050□□VA    |                  |
|  | 18000       | 35×40               | 0.40               | 4.16   | HFT183M35040□□VA    |                  |
|  | 22000       | 35×50               | 0.40               | 4.92   | HFT223M35050□□VA    |                  |
|  | 27000       | 35×55               | 0.40               | 5.50   | HFT273M35055□□VA    |                  |
|  | 50<br>(63)  | 1500                | 22×25              | 0.35   | 1.22                | HFR152M22025□□VA |
|  |             | 1800                | 22×25              | 0.35   | 1.32                | HFR182M22025□□VA |
|  |             | 2200                | 22×30              | 0.35   | 1.45                | HFR222M22030□□VA |
|  |             | 2200                | 25×25              | 0.35   | 1.47                | HFR222M25025□□VA |
|  |             | 2700                | 22×30              | 0.35   | 1.70                | HFR272M22030□□VA |
|  |             | 2700                | 25×25              | 0.35   | 1.72                | HFR272M25025□□VA |
|  |             | 3300                | 22×35              | 0.35   | 1.99                | HFR332M22035□□VA |
|  |             | 3300                | 25×30              | 0.35   | 2.01                | HFR332M25030□□VA |
|  |             | 3300                | 30×25              | 0.35   | 2.03                | HFR332M30025□□VA |
|  |             | 3900                | 22×40              | 0.35   | 2.25                | HFR392M22040□□VA |
|  |             | 3900                | 25×35              | 0.35   | 2.28                | HFR392M25035□□VA |
|  |             | 3900                | 30×25              | 0.35   | 2.22                | HFR392M30025□□VA |
|  |             | 4700                | 22×45              | 0.35   | 2.56                | HFR472M22045□□VA |
| 4700                                       |             | 25×40               | 0.35               | 2.60   | HFR472M25040□□VA    |                  |
| 4700                                       |             | 30×30               | 0.35               | 2.58   | HFR472M30030□□VA    |                  |
| 4700                                       |             | 35×25               | 0.35               | 2.67   | HFR472M35025□□VA    |                  |
| 5600                                       |             | 22×50               | 0.35               | 2.90   | HFR562M22050□□VA    |                  |
| 5600                                       |             | 25×40               | 0.35               | 2.82   | HFR562M25040□□VA    |                  |
| 5600                                       |             | 30×35               | 0.35               | 2.95   | HFR562M30035□□VA    |                  |
| 5600                                       |             | 35×25               | 0.35               | 3.00   | HFR562M35025□□VA    |                  |
| 6800                                       |             | 25×50               | 0.35               | 3.38   | HFR682M25050□□VA    |                  |
| 6800                                       |             | 30×40               | 0.35               | 3.40   | HFR682M30040□□VA    |                  |
| 6800                                       |             | 35×30               | 0.35               | 3.32   | HFR682M35030□□VA    |                  |
| 8200                                       |             | 30×45               | 0.35               | 3.72   | HFR822M30045□□VA    |                  |
| 8200                                       |             | 35×35               | 0.35               | 3.67   | HFR822M35035□□VA    |                  |
| 10000                                      |             | 30×50               | 0.35               | 4.10   | HFR103M30050□□VA    |                  |
| 10000                                      |             | 35×40               | 0.35               | 4.08   | HFR103M35040□□VA    |                  |

\*产品编码中□内为产品端子引出型式代码  
\*□Enter the appropriate terminal code

# HF 系列 SERIES

## ◆ 产品一览表 Standard Ratings

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>( $\mu$ F) | Size<br>DxL<br>(mm) | tan $\delta$<br>20°C120Hz | Ripple Curr<br>ent<br>105°C120Hz<br>(Arms) | Catalog Part Number | WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>( $\mu$ F) | Size<br>DxL<br>(mm) | tan $\delta$<br>20°C120Hz | Ripple Curr<br>ent<br>105°C120Hz<br>(Arms) | Catalog Part Number |
|--|-------------------|---------------------|---------------------------|--|---------------------|--|-------------------|---------------------|---------------------------|--|---------------------|
| 50<br>(63)                                 | 12000             | 30x55               | 0.35                      | 4.52                                       | HFR123M30055□□VA    | 80<br>(100)                                | 5600              | 30x55               | 0.25                      | 3.80                                       | HFP562M30055□□VA    |
|  | 12000             | 35x45               | 0.35                      | 4.50                                       | HFR123M35045□□VA    |  | 5600              | 35x40               | 0.25                      | 3.80                                       | HFP562M35040□□VA    |
|  | 15000             | 35x50               | 0.35                      | 4.80                                       | HFR153M35050□□VA    |  | 6800              | 30x60               | 0.25                      | 3.90                                       | HFP682M30060□□VA    |
|  | 18000             | 35x60               | 0.35                      | 5.10                                       | HFR183M35060□□VA    |  | 6800              | 35x45               | 0.25                      | 3.90                                       | HFP682M35045□□VA    |
| 63<br>(79)                                 | 1000              | 22x25               | 0.30                      | 1.15                                       | HFQ102M22025□□VA    | 100<br>(125)                               | 8200              | 35x55               | 0.25                      | 4.20                                       | HFP822M35055□□VA    |
|  | 1200              | 22x25               | 0.30                      | 1.26                                       | HFQ122M22025□□VA    |  | 10000             | 35x60               | 0.25                      | 4.48                                       | HFP103M35060□□VA    |
|  | 1500              | 22x30               | 0.30                      | 1.45                                       | HFQ152M22030□□VA    |  | 470               | 22x25               | 0.20                      | 0.92                                       | HFO471M22025□□VA    |
|  | 1500              | 25x25               | 0.30                      | 1.47                                       | HFQ152M25025□□VA    |  | 560               | 22x25               | 0.20                      | 1.07                                       | HFO561M22025□□VA    |
|  | 1800              | 22x30               | 0.30                      | 1.53                                       | HFQ182M22030□□VA    |  | 680               | 22x30               | 0.20                      | 1.15                                       | HFO681M22030□□VA    |
|  | 1800              | 25x25               | 0.30                      | 1.53                                       | HFQ182M25025□□VA    |  | 680               | 25x25               | 0.20                      | 1.15                                       | HFO681M25025□□VA    |
|  | 2200              | 22x35               | 0.30                      | 1.73                                       | HFQ222M22035□□VA    |  | 820               | 22x30               | 0.20                      | 1.35                                       | HFO821M22030□□VA    |
|  | 2200              | 25x30               | 0.30                      | 1.75                                       | HFQ222M25030□□VA    |  | 820               | 25x25               | 0.20                      | 1.35                                       | HFO821M25025□□VA    |
|  | 2200              | 30x25               | 0.30                      | 1.78                                       | HFQ222M30025□□VA    |  | 1000              | 22x35               | 0.20                      | 1.54                                       | HFO102M22035□□VA    |
|  | 2700              | 22x40               | 0.30                      | 1.98                                       | HFQ272M22040□□VA    |  | 1000              | 25x30               | 0.20                      | 1.56                                       | HFO102M25030□□VA    |
|  | 2700              | 25x35               | 0.30                      | 2.00                                       | HFQ272M25035□□VA    |  | 1000              | 30x25               | 0.20                      | 1.52                                       | HFO102M30025□□VA    |
|  | 2700              | 30x25               | 0.30                      | 1.95                                       | HFQ272M30025□□VA    |  | 1200              | 22x40               | 0.20                      | 1.74                                       | HFO122M22040□□VA    |
|  | 3300              | 22x45               | 0.30                      | 2.30                                       | HFQ332M22045□□VA    |  | 1200              | 25x35               | 0.20                      | 1.76                                       | HFO122M25035□□VA    |
|  | 3300              | 25x40               | 0.30                      | 2.28                                       | HFQ332M25040□□VA    |  | 1200              | 30x25               | 0.20                      | 1.71                                       | HFO122M30025□□VA    |
|  | 3300              | 30x30               | 0.30                      | 2.25                                       | HFQ332M30030□□VA    |  | 1500              | 22x50               | 0.20                      | 1.99                                       | HFO152M22050□□VA    |
|  | 3300              | 35x25               | 0.30                      | 2.42                                       | HFQ332M35025□□VA    |  | 1500              | 25x40               | 0.20                      | 2.03                                       | HFO152M25040□□VA    |
|  | 3900              | 25x45               | 0.30                      | 2.55                                       | HFQ392M25045□□VA    |  | 1500              | 30x30               | 0.20                      | 2.00                                       | HFO152M30030□□VA    |
|  | 3900              | 30x35               | 0.30                      | 2.56                                       | HFQ392M30035□□VA    |  | 1500              | 35x25               | 0.20                      | 2.08                                       | HFO152M35025□□VA    |
|  | 3900              | 35x25               | 0.30                      | 2.60                                       | HFQ392M35025□□VA    |  | 1800              | 25x45               | 0.20                      | 2.28                                       | HFO182M25045□□VA    |
|  | 4700              | 25x50               | 0.30                      | 2.89                                       | HFQ472M25050□□VA    |  | 1800              | 30x35               | 0.20                      | 2.27                                       | HFO182M30035□□VA    |
|  | 4700              | 30x35               | 0.30                      | 2.86                                       | HFQ472M30035□□VA    |  | 1800              | 35x25               | 0.20                      | 2.20                                       | HFO182M35025□□VA    |
|  | 4700              | 35x30               | 0.30                      | 2.84                                       | HFQ472M35030□□VA    |  | 2200              | 25x50               | 0.20                      | 2.57                                       | HFO222M25050□□VA    |
|  | 5600              | 30x40               | 0.30                      | 3.26                                       | HFQ562M30040□□VA    |  | 2200              | 30x40               | 0.20                      | 2.59                                       | HFO222M30040□□VA    |
|  | 5600              | 35x35               | 0.30                      | 3.24                                       | HFQ562M35035□□VA    |  | 2200              | 35x30               | 0.20                      | 2.52                                       | HFO222M35030□□VA    |
|  | 6800              | 30x50               | 0.30                      | 3.74                                       | HFQ682M30050□□VA    |  | 2200              | 25x40               | 0.20                      | 2.33                                       | HFO222M25040□□VA    |
|  | 6800              | 35x35               | 0.30                      | 3.70                                       | HFQ682M35035□□VA    |  | 2700              | 30x45               | 0.20                      | 2.94                                       | HFO272M30045□□VA    |
|  | 8200              | 30x55               | 0.30                      | 4.10                                       | HFQ822M30055□□VA    |  | 2700              | 35x35               | 0.20                      | 2.90                                       | HFO272M35035□□VA    |
|  | 8200              | 35x40               | 0.30                      | 4.00                                       | HFQ822M35040□□VA    |  | 3300              | 30x50               | 0.20                      | 3.32                                       | HFO332M30050□□VA    |
| 10000                                      | 35x50             | 0.30                | 4.70                      | HFQ103M35050□□VA                           | 3300                | 35x40                                      | 0.20              | 3.31                | HFO332M35040□□VA          |  |                     |
| 12000                                      | 35x55             | 0.30                | 4.90                      | HFQ123M35055□□VA                           | 3900                | 30x60                                      | 0.20              | 3.60                | HFO392M30060□□VA          |  |                     |
| 80<br>(100)                                | 820               | 22x25               | 0.25                      | 1.12                                       | HFP821M22025□□VA    | 3900                                       | 35x45             | 0.20                | 3.69                      | HFO392M35045□□VA                           |                     |
|  | 1000              | 22x25               | 0.25                      | 1.25                                       | HFP102M22025□□VA    | 4700                                       | 35x50             | 0.20                | 4.14                      | HFO472M35050□□VA                           |                     |
|  | 1200              | 22x30               | 0.25                      | 1.40                                       | HFP122M22030□□VA    | 5600                                       | 35x60             | 0.20                | 4.70                      | HFO562M35060□□VA                           |                     |
|  | 1200              | 25x25               | 0.25                      | 1.40                                       | HFP122M25025□□VA    | 6800                                       | 35x65             | 0.20                | 5.40                      | HFO682M35065□□VA                           |                     |
|  | 1500              | 22x35               | 0.25                      | 1.61                                       | HFP152M22035□□VA    | 180  | 22x25             | 0.15                | 0.70                      | HFN181M22025□□VA                           |                     |
|  | 1500              | 25x30               | 0.25                      | 1.62                                       | HFP152M25030□□VA    | 220  | 22x25             | 0.15                | 0.78                      | HFN221M22025□□VA                           |                     |
|  | 1800              | 22x40               | 0.25                      | 1.83                                       | HFP182M22040□□VA    | 270  | 22x30             | 0.15                | 1.10                      | HFN271M22030□□VA                           |                     |
|  | 1800              | 25x30               | 0.25                      | 1.82                                       | HFP182M25030□□VA    | 330  | 22x30             | 0.15                | 1.20                      | HFN331M22030□□VA                           |                     |
|  | 1800              | 30x25               | 0.25                      | 1.81                                       | HFP182M30025□□VA    | 330  | 25x25             | 0.15                | 1.22                      | HFN331M25025□□VA                           |                     |
|  | 2200              | 22x45               | 0.25                      | 2.09                                       | HFP222M22045□□VA    | 390  | 22x35             | 0.15                | 1.30                      | HFN391M22035□□VA                           |                     |
|  | 2200              | 25x35               | 0.25                      | 2.01                                       | HFP222M25035□□VA    | 390  | 25x30             | 0.15                | 1.32                      | HFN391M25030□□VA                           |                     |
|  | 2200              | 30x30               | 0.25                      | 2.10                                       | HFP222M30030□□VA    | 390  | 30x25             | 0.15                | 1.31                      | HFN391M30025□□VA                           |                     |
|  | 2200              | 35x25               | 0.25                      | 2.17                                       | HFP222M35025□□VA    | 470  | 22x40             | 0.15                | 1.55                      | HFN471M22040□□VA                           |                     |
|  | 2700              | 22x50               | 0.25                      | 2.43                                       | HFP272M22050□□VA    | 470  | 25x35             | 0.15                | 1.58                      | HFN471M25035□□VA                           |                     |
|  | 2700              | 25x40               | 0.25                      | 2.43                                       | HFP272M25040□□VA    | 470  | 30x25             | 0.15                | 1.56                      | HFN471M30025□□VA                           |                     |
|  | 2700              | 30x30               | 0.25                      | 2.43                                       | HFP272M30030□□VA    | 560  | 22x45             | 0.15                | 1.67                      | HFN561M22045□□VA                           |                     |
|  | 2700              | 35x25               | 0.25                      | 2.43                                       | HFP272M35025□□VA    | 560  | 25x35             | 0.15                | 1.69                      | HFN561M25035□□VA                           |                     |
|  | 3300              | 25x50               | 0.25                      | 2.76                                       | HFP332M25050□□VA    | 560  | 30x30             | 0.15                | 1.68                      | HFN561M30030□□VA                           |                     |
|  | 3300              | 30x35               | 0.25                      | 2.72                                       | HFP332M30035□□VA    | 680  | 22x50             | 0.15                | 1.82                      | HFN681M22050□□VA                           |                     |
|  | 3300              | 35x30               | 0.25                      | 2.71                                       | HFP332M35030□□VA    | 680  | 25x40             | 0.15                | 1.85                      | HFN681M25040□□VA                           |                     |
|  | 3900              | 30x40               | 0.25                      | 3.00                                       | HFP392M30040□□VA    | 680  | 30x30             | 0.15                | 1.84                      | HFN681M30030□□VA                           |                     |
|  | 3900              | 35x30               | 0.25                      | 2.97                                       | HFP392M35030□□VA    | 680  | 35x25             | 0.15                | 1.83                      | HFN681M35025□□VA                           |                     |
|  | 4700              | 30x45               | 0.25                      | 3.34                                       | HFP472M30045□□VA    | 820  | 25x45             | 0.15                | 2.04                      | HFN821M25045□□VA                           |                     |
|  | 4700              | 35x40               | 0.25                      | 3.38                                       | HFP472M35040□□VA    | 820  | 30x35             | 0.15                | 2.06                      | HFN821M30035□□VA                           |                     |

|      |       |      |      |                  |
|------|-------|------|------|------------------|
| 4700 | 25×50 | 0.25 | 3.16 | HFP472M25050□□VA |
|------|-------|------|------|------------------|

|     |       |      |      |                  |
|-----|-------|------|------|------------------|
| 820 | 35×30 | 0.15 | 2.05 | HFN821M35030□□VA |
|-----|-------|------|------|------------------|

\*产品编码中□内为产品端子引出型式代码  
\*□Enter the appropriate terminal code

# HF 系列 SERIES

## ◆产品一览表 Standard Ratings

| W <sub>VDC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF)  | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple Current<br>105°C/120Hz<br>(Arms) | Catalog Part Number |                  |
|--|--------------|---------------------|--------------------|---|---------------------|------------------|
| 160<br>(200)                               | 1000         | 25×50               | 0.15               | 2.40                                    | HFN102M25050□□VA    |                  |
|  | 1000         | 30×40               | 0.15               | 2.25                                    | HFN102M30040□□VA    |                  |
|  | 1000         | 35×30               | 0.15               | 2.28                                    | HFN102M35030□□VA    |                  |
|  | 1200         | 30×45               | 0.15               | 3.49                                    | HFN122M30045□□VA    |                  |
|  | 1200         | 35×35               | 0.15               | 3.49                                    | HFN122M35035□□VA    |                  |
|  | 1500         | 30×50               | 0.15               | 2.84                                    | HFN152M30050□□VA    |                  |
|  | 1500         | 35×40               | 0.15               | 2.86                                    | HFN152M35040□□VA    |                  |
|  | 1800         | 30×60               | 0.15               | 3.32                                    | HFN182M30060□□VA    |                  |
|  | 1800         | 35×45               | 0.15               | 3.32                                    | HFN182M35045□□VA    |                  |
|  | 2200         | 35×55               | 0.15               | 3.60                                    | HFN222M35055□□VA    |                  |
|  | 2700         | 35×60               | 0.15               | 4.16                                    | HFN272M35060□□VA    |                  |
| 200<br>(250)                               | 150          | 22×25               | 0.15               | 0.70                                    | HFL151M22025□□VA    |                  |
|  | 180          | 22×25               | 0.15               | 0.80                                    | HFL181M22025□□VA    |                  |
|  | 220          | 22×25               | 0.15               | 1.00                                    | HFL221M22025□□VA    |                  |
|  | 270          | 22×30               | 0.15               | 1.10                                    | HFL271M22030□□VA    |                  |
|  | 270          | 25×25               | 0.15               | 1.10                                    | HFL271M25025□□VA    |                  |
|  | 330          | 22×35               | 0.15               | 1.25                                    | HFL331M22035□□VA    |                  |
|  | 330          | 25×25               | 0.15               | 1.25                                    | HFL331M25025□□VA    |                  |
|  | 390          | 22×35               | 0.15               | 1.35                                    | HFL391M22035□□VA    |                  |
|  | 390          | 25×30               | 0.15               | 1.35                                    | HFL391M25030□□VA    |                  |
|  | 390          | 30×25               | 0.15               | 1.35                                    | HFL391M30025□□VA    |                  |
|  | 470          | 22×35               | 0.15               | 1.40                                    | HFL471M22035□□VA    |                  |
|  | 470          | 25×35               | 0.15               | 1.47                                    | HFL471M25035□□VA    |                  |
|  | 470          | 30×25               | 0.15               | 1.56                                    | HFL471M30025□□VA    |                  |
|  | 560          | 22×45               | 0.15               | 1.58                                    | HFL561M22045□□VA    |                  |
|  | 560          | 25×35               | 0.15               | 1.65                                    | HFL561M25035□□VA    |                  |
|  | 560          | 30×30               | 0.15               | 1.62                                    | HFL561M30030□□VA    |                  |
|  | 560          | 35×25               | 0.15               | 1.60                                    | HFL561M35025□□VA    |                  |
|  | 680          | 25×45               | 0.15               | 1.80                                    | HFL681M25045□□VA    |                  |
|  | 680          | 30×35               | 0.15               | 1.82                                    | HFL681M30035□□VA    |                  |
|  | 680          | 35×25               | 0.15               | 1.96                                    | HFL681M35025□□VA    |                  |
|  | 820          | 25×50               | 0.15               | 1.87                                    | HFL821M25050□□VA    |                  |
|  | 820          | 30×40               | 0.15               | 1.99                                    | HFL821M30040□□VA    |                  |
|  | 820          | 35×30               | 0.15               | 2.07                                    | HFL821M35030□□VA    |                  |
|  | 1000         | 30×45               | 0.15               | 2.17                                    | HFL102M30045□□VA    |                  |
|  | 1000         | 35×35               | 0.15               | 2.22                                    | HFL102M35035□□VA    |                  |
|  | 1200         | 30×50               | 0.15               | 2.23                                    | HFL122M30050□□VA    |                  |
|  | 1200         | 35×40               | 0.15               | 2.42                                    | HFL122M35040□□VA    |                  |
| 1500                                       | 30×60        | 0.15                | 2.60               | HFL152M30060□□VA                        |                     |                  |
| 1500                                       | 35×45        | 0.15                | 2.59               | HFL152M35045□□VA                        |                     |                  |
| 1800                                       | 35×50        | 0.15                | 2.70               | HFL182M35050□□VA                        |                     |                  |
| 2200                                       | 35×60        | 0.15                | 3.20               | HFL222M35060□□VA                        |                     |                  |
| 250<br>(300)                               | 100          | 22×25               | 0.15               | 0.50                                    | HFJ101M22025□□VA    |                  |
|  | 120          | 22×25               | 0.15               | 0.58                                    | HFJ121M22025□□VA    |                  |
|  | 150          | 22×30               | 0.15               | 0.79                                    | HFJ151M22030□□VA    |                  |
|  | 150          | 25×25               | 0.15               | 0.79                                    | HFJ151M25025□□VA    |                  |
|  | 180          | 22×30               | 0.15               | 0.94                                    | HFJ181M22030□□VA    |                  |
|  | 180          | 25×25               | 0.15               | 0.90                                    | HFJ181M25025□□VA    |                  |
|  | 220          | 22×35               | 0.15               | 1.10                                    | HFJ221M22035□□VA    |                  |
|  | 220          | 25×30               | 0.15               | 1.15                                    | HFJ221M25030□□VA    |                  |
|  | 270          | 22×40               | 0.15               | 1.18                                    | HFJ271M22040□□VA    |                  |
|  | 270          | 25×35               | 0.15               | 1.27                                    | HFJ271M25035□□VA    |                  |
|  | 270          | 30×25               | 0.15               | 1.27                                    | HFJ271M30025□□VA    |                  |
|  | 330          | 22×45               | 0.15               | 1.30                                    | HFJ331M22045□□VA    |                  |
|  | 330          | 25×35               | 0.15               | 1.30                                    | HFJ331M25035□□VA    |                  |
|  | 330          | 30×30               | 0.15               | 1.35                                    | HFJ331M30030□□VA    |                  |
|  | 250<br>(300) | 390                 | 25×40              | 0.15                                    | 1.50                | HFJ391M25040□□VA |
|  |              | 390                 | 30×30              | 0.15                                    | 1.45                | HFJ391M30030□□VA |
|  |              | 390                 | 35×25              | 0.15                                    | 1.45                | HFJ391M35025□□VA |
| 470  |              | 22×50               | 0.15               | 1.37                                    | HFJ471M22050□□VA    |                  |
| 470  |              | 25×40               | 0.15               | 1.52                                    | HFJ471M25040□□VA    |                  |
| 470  |              | 30×30               | 0.15               | 1.36                                    | HFJ471M30030□□VA    |                  |
| 470  |              | 35×25               | 0.15               | 1.40                                    | HFJ471M35025□□VA    |                  |
| 560  |              | 25×45               | 0.15               | 1.60                                    | HFJ561M25045□□VA    |                  |
| 560  |              | 30×35               | 0.15               | 1.57                                    | HFJ561M30035□□VA    |                  |
| 560  |              | 35×30               | 0.15               | 1.56                                    | HFJ561M35030□□VA    |                  |
| 680  |              | 25×50               | 0.15               | 1.66                                    | HFJ681M25050□□VA    |                  |
| 680  |              | 30×40               | 0.15               | 1.76                                    | HFJ681M30040□□VA    |                  |
| 680  |              | 35×35               | 0.15               | 1.75                                    | HFJ681M35035□□VA    |                  |
| 820  |              | 30×50               | 0.15               | 1.91                                    | HFJ821M30050□□VA    |                  |
| 820  |              | 35×40               | 0.15               | 1.90                                    | HFJ821M35040□□VA    |                  |
| 1000                                       |              | 30×50               | 0.15               | 1.99                                    | HFJ102M30050□□VA    |                  |
| 1000                                       |              | 35×40               | 0.15               | 1.99                                    | HFJ102M35040□□VA    |                  |
| 1200                                       |              | 35×50               | 0.15               | 2.19                                    | HFJ122M35050□□VA    |                  |
| 1500                                       |              | 35×60               | 0.15               | 2.65                                    | HFJ152M35060□□VA    |                  |
| 315<br>(365)                               |              | 82                  | 22×25              | 0.15                                    | 0.64                | HH820M22025□□VA  |
|  |              | 100                 | 22×25              | 0.15                                    | 0.69                | HH101M22025□□VA  |
|  |              | 120                 | 22×30              | 0.15                                    | 0.75                | HH121M22030□□VA  |
|  |              | 120                 | 25×25              | 0.15                                    | 0.74                | HH121M25025□□VA  |
|  |              | 150                 | 22×35              | 0.15                                    | 0.82                | HH151M22035□□VA  |
|  |              | 150                 | 25×30              | 0.15                                    | 0.82                | HH151M25030□□VA  |
|  |              | 180                 | 22×40              | 0.15                                    | 0.86                | HH181M22040□□VA  |
|  |              | 180                 | 25×35              | 0.15                                    | 0.86                | HH181M25035□□VA  |
|  | 180          | 30×25               | 0.15               | 0.85                                    | HH181M30025□□VA     |                  |
|  | 220          | 22×45               | 0.15               | 0.98                                    | HH221M22045□□VA     |                  |
|  | 220          | 25×40               | 0.15               | 1.04                                    | HH221M25040□□VA     |                  |
|  | 220          | 30×30               | 0.15               | 1.03                                    | HH221M30030□□VA     |                  |
|  | 270          | 22×50               | 0.15               | 1.10                                    | HH271M22050□□VA     |                  |
|  | 270          | 25×45               | 0.15               | 1.16                                    | HH271M25045□□VA     |                  |
|  | 270          | 30×35               | 0.15               | 1.16                                    | HH271M30035□□VA     |                  |
|  | 270          | 35×25               | 0.15               | 1.15                                    | HH271M35025□□VA     |                  |
|  | 330          | 25×50               | 0.15               | 1.33                                    | HH331M25050□□VA     |                  |
|  | 330          | 30×40               | 0.15               | 1.32                                    | HH331M30040□□VA     |                  |
|  | 330          | 35×30               | 0.15               | 1.31                                    | HH331M35030□□VA     |                  |
|  | 390          | 30×45               | 0.15               | 1.40                                    | HH391M30045□□VA     |                  |
|  | 390          | 35×35               | 0.15               | 1.47                                    | HH391M35035□□VA     |                  |
|  | 470          | 30×50               | 0.15               | 1.70                                    | HH471M30050□□VA     |                  |
|  | 470          | 35×40               | 0.15               | 1.70                                    | HH471M35040□□VA     |                  |
|  | 560          | 30×55               | 0.15               | 1.95                                    | HH561M30055□□VA     |                  |
|  | 560          | 35×45               | 0.15               | 2.05                                    | HH561M35045□□VA     |                  |
|  | 680          | 30×60               | 0.15               | 2.17                                    | HH681M30060□□VA     |                  |
|  | 680          | 35×50               | 0.15               | 2.17                                    | HH681M35050□□VA     |                  |
| 820  | 35×55        | 0.15                | 2.20               | HH821M35055□□VA                         |                     |                  |
| 1000                                       | 35×60        | 0.15                | 2.48               | HH102M35060□□VA                         |                     |                  |
| 350<br>(400)                               | 68           | 22×25               | 0.18               | 0.56                                    | HH680M22025□□VA     |                  |
|  | 82           | 22×25               | 0.18               | 0.63                                    | HH820M22025□□VA     |                  |
|  | 100          | 22×30               | 0.18               | 0.70                                    | HH101M22030□□VA     |                  |
|  | 100          | 25×25               | 0.18               | 0.70                                    | HH101M25025□□VA     |                  |
|  | 120          | 22×35               | 0.18               | 0.73                                    | HH121M22035□□VA     |                  |
|  | 120          | 25×25               | 0.18               | 0.72                                    | HH121M25025□□VA     |                  |
|  | 150          | 22×40               | 0.18               | 0.79                                    | HH151M22040□□VA     |                  |
|  | 150          | 25×30               | 0.18               | 0.82                                    | HH151M25030□□VA     |                  |

|     |       |      |      |                 |
|-----|-------|------|------|-----------------|
| 330 | 35×25 | 0.15 | 1.30 | HFJ331M35025□VA |
| 390 | 22×50 | 0.15 | 1.45 | HFJ391M22050□VA |

|     |       |      |      |                 |
|-----|-------|------|------|-----------------|
| 150 | 30×25 | 0.18 | 0.82 | HFH151M30025□VA |
| 180 | 22×45 | 0.18 | 0.89 | HFH181M22045□VA |

\*产品编码中□内为产品端子引出型式代码  
\*□Enter the appropriate terminal code

## HF 系列 SERIES

### ◆产品一览表 Standard Ratings

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C120Hz | Ripple Curr<br>ent<br>105°C120Hz<br>(Arms) | Catalog Part Number |
|--|-------------|---------------------|-------------------|--|---------------------|
| 350<br>(400)                               | 180         | 25×35               | 0.18              | 0.89                                       | HFH181M25035□VA     |
|  | 180         | 30×25               | 0.18              | 0.85                                       | HFH181M30025□VA     |
|  | 220         | 22×50               | 0.18              | 0.93                                       | HFH221M22050□VA     |
|  | 220         | 25×40               | 0.18              | 0.97                                       | HFH221M25040□VA     |
|  | 220         | 30×30               | 0.18              | 0.96                                       | HFH221M30030□VA     |
|  | 220         | 35×25               | 0.18              | 0.98                                       | HFH221M35025□VA     |
|  | 270         | 25×50               | 0.18              | 1.16                                       | HFH271M25050□VA     |
|  | 270         | 30×35               | 0.18              | 1.14                                       | HFH271M30035□VA     |
|  | 270         | 35×30               | 0.18              | 1.14                                       | HFH271M35030□VA     |
|  | 330         | 25×45               | 0.18              | 1.22                                       | HFH331M25045□VA     |
|  | 330         | 30×45               | 0.18              | 1.34                                       | HFH331M30045□VA     |
|  | 330         | 35×35               | 0.18              | 1.34                                       | HFH331M35035□VA     |
|  | 390         | 30×50               | 0.18              | 1.54                                       | HFH391M30050□VA     |
|  | 390         | 35×40               | 0.18              | 1.54                                       | HFH391M35040□VA     |
|  | 470         | 30×50               | 0.18              | 1.68                                       | HFH471M30050□VA     |
|  | 470         | 35×45               | 0.18              | 1.76                                       | HFH471M35045□VA     |
|  | 560         | 30×60               | 0.18              | 1.98                                       | HFH561M30060□VA     |
|  | 560         | 35×50               | 0.18              | 1.95                                       | HFH561M35050□VA     |
|  | 680         | 35×55               | 0.18              | 2.20                                       | HFH681M35055□VA     |
|  | 820         | 35×60               | 0.18              | 2.56                                       | HFH821M35060□VA     |
|  | 1000        | 35×60               | 0.18              | 2.85                                       | HFH102M35060□VA     |
|  | 1000        | 35×65               | 0.18              | 2.90                                       | HFH102M35065□VA     |
|  | 1000        | 40×55               | 0.18              | 2.90                                       | HFH102M40055□VA     |
|  | 1200        | 35×75               | 0.18              | 3.60                                       | HFH122M35075□VA     |
|  | 1200        | 40×65               | 0.18              | 3.66                                       | HFH122M40065□VA     |
|  | 1500        | 40×80               | 0.18              | 4.36                                       | HFH152M40080□VA     |
|  | 1500        | 45×65               | 0.18              | 4.22                                       | HFH152M45065□VA     |
|  | 1800        | 40×95               | 0.18              | 5.12                                       | HFH182M40095□VA     |
|  | 1800        | 45×75               | 0.18              | 4.92                                       | HFH182M45075□VA     |
|  | 2200        | 45×90               | 0.18              | 5.80                                       | HFH222M45090□VA     |
|  | 2200        | 50×75               | 0.18              | 5.60                                       | HFH222M50075□VA     |
|  | 2700        | 45×100              | 0.18              | 6.53                                       | HFH272M45100□VA     |
|  | 2700        | 50×90               | 0.18              | 6.61                                       | HFH272M50090□VA     |
| 3300                                       | 50×105      | 0.18                | 7.70              | HFH332M50105□VA                            |                     |
| 400<br>(450)                               | 47          | 22×25               | 0.18              | 0.40                                       | HFG470M22025□VA     |
|  | 56          | 22×25               | 0.18              | 0.51                                       | HFG560M22025□VA     |
|  | 68          | 22×25               | 0.18              | 0.55                                       | HFG680M22025□VA     |
|  | 82          | 22×30               | 0.18              | 0.64                                       | HFG820M22030□VA     |
|  | 82          | 25×25               | 0.18              | 0.64                                       | HFG820M25025□VA     |
|  | 100         | 22×30               | 0.18              | 0.70                                       | HFG101M22030□VA     |
|  | 100         | 22×20               | 0.18              | 0.59                                       | HFG101M22020□VA     |
|  | 100         | 22×25               | 0.18              | 0.61                                       | HFG101M22025□VA     |
|  | 120         | 22×35               | 0.18              | 0.75                                       | HFG121M22035□VA     |
|  | 120         | 25×30               | 0.18              | 0.75                                       | HFG121M25030□VA     |
|  | 120         | 30×25               | 0.18              | 0.75                                       | HFG121M30025□VA     |
|  | 150         | 22×40               | 0.18              | 0.83                                       | HFG151M22040□VA     |
|  | 150         | 25×35               | 0.18              | 0.83                                       | HFG151M25035□VA     |
|  | 150         | 30×25               | 0.18              | 0.83                                       | HFG151M30025□VA     |
|  | 180         | 22×50               | 0.18              | 0.96                                       | HFG181M22050□VA     |
|  | 180         | 25×40               | 0.18              | 0.98                                       | HFG181M25040□VA     |
|  | 180         | 30×30               | 0.18              | 0.98                                       | HFG181M30030□VA     |
|  | 180         | 35×25               | 0.18              | 0.98                                       | HFG181M35025□VA     |
|  | 220         | 25×45               | 0.18              | 1.06                                       | HFG221M25045□VA     |
|  | 220         | 30×35               | 0.18              | 1.04                                       | HFG221M30035□VA     |
|  | 220         | 22×45               | 0.18              | 0.99                                       | HFG221M22045□VA     |
|  | 220         | 25×30               | 0.18              | 0.89                                       | HFG221M25030□VA     |

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF)  | Size<br>D×L<br>(mm) | tanδ<br>20°C120Hz | Ripple Curr<br>ent<br>105°C120Hz<br>(Arms) | Catalog Part Number |                 |
|--|--------------|---------------------|-------------------|--|---------------------|-----------------|
| 400<br>(450)                               | 390          | 30×50               | 0.18              | 1.60                                       | HFG391M30050□VA     |                 |
|  | 390          | 35×40               | 0.18              | 1.60                                       | HFG391M35040□VA     |                 |
|  | 470          | 35×40               | 0.18              | 1.81                                       | HFG471M35040□VA     |                 |
|  | 470          | 35×45               | 0.18              | 1.90                                       | HFG471M35045□VA     |                 |
|  | 560          | 35×50               | 0.18              | 2.12                                       | HFG561M35050□VA     |                 |
|  | 560          | 35×40               | 0.18              | 1.93                                       | HFG561M35040□VA     |                 |
|  | 560          | 30×60               | 0.18              | 2.12                                       | HFG561M30060□VA     |                 |
|  | 680          | 35×60               | 0.18              | 2.30                                       | HFG681M35060□VA     |                 |
|  | 820          | 35×65               | 0.18              | 2.70                                       | HFG821M35065□VA     |                 |
|  | 1000         | 35×70               | 0.18              | 3.00                                       | HFG102M35070□VA     |                 |
|  | 1000         | 40×65               | 0.18              | 3.20                                       | HFG102M40065□VA     |                 |
|  | 1000         | 35×65               | 0.18              | 2.9  | HFG102M35065□VA     |                 |
|  | 1000         | 35×75               | 0.18              | 3.09                                       | HFG102M35075□VA     |                 |
|  | 1200         | 35×90               | 0.18              | 3.80                                       | HFG122M35090□VA     |                 |
|  | 1200         | 40×80               | 0.18              | 3.90                                       | HFG122M40080□VA     |                 |
|  | 1200         | 45×60               | 0.18              | 3.70                                       | HFG122M45060□VA     |                 |
|  | 1500         | 40×90               | 0.18              | 4.20                                       | HFG152M40090□VA     |                 |
|  | 1500         | 45×75               | 0.18              | 4.40                                       | HFG152M45075□VA     |                 |
|  | 1500         | 50×70               | 0.18              | 4.70                                       | HFG152M50070□VA     |                 |
|  | 1800         | 45×90               | 0.18              | 5.40                                       | HFG182M45090□VA     |                 |
|  | 1800         | 50×80               | 0.18              | 5.40                                       | HFG182M50080□VA     |                 |
|  | 2200         | 50×90               | 0.18              | 6.20                                       | HFG222M50090□VA     |                 |
|  | 2700         | 50×105              | 0.18              | 7.00                                       | HFG272M50105□VA     |                 |
|  | 450<br>(500) | 47                  | 22×25             | 0.20                                       | 0.38                | HFE470M22025□VA |
|  |              | 56                  | 22×25             | 0.20                                       | 0.47                | HFE560M22025□VA |
|  |              | 68                  | 22×30             | 0.20                                       | 0.56                | HFE680M22030□VA |
|  |              | 68                  | 25×25             | 0.20                                       | 0.56                | HFE680M25025□VA |
| 82   |              | 22×35               | 0.20              | 0.64                                       | HFE820M22035□VA     |                 |
| 82   |              | 25×30               | 0.20              | 0.64                                       | HFE820M25030□VA     |                 |
| 100  |              | 22×30               | 0.20              | 0.62                                       | HFE101M22030□VA     |                 |
| 100  |              | 25×30               | 0.20              | 0.70                                       | HFE101M25030□VA     |                 |
| 100  |              | 30×25               | 0.20              | 0.78                                       | HFE101M30025□VA     |                 |
| 120  |              | 22×45               | 0.20              | 0.73                                       | HFE121M22045□VA     |                 |
| 120  |              | 25×35               | 0.20              | 0.73                                       | HFE121M25035□VA     |                 |
| 120  |              | 30×30               | 0.20              | 0.73                                       | HFE121M30030□VA     |                 |
| 150  |              | 22×50               | 0.20              | 0.78                                       | HFE151M22050□VA     |                 |
| 150  |              | 25×40               | 0.20              | 0.82                                       | HFE151M25040□VA     |                 |
| 150  |              | 30×30               | 0.20              | 0.83                                       | HFE151M30030□VA     |                 |
| 150  |              | 35×25               | 0.20              | 0.86                                       | HFE151M35025□VA     |                 |
| 180  |              | 25×45               | 0.20              | 0.88                                       | HFE181M25045□VA     |                 |
| 180  |              | 30×35               | 0.20              | 0.88                                       | HFE181M30035□VA     |                 |
| 180  |              | 35×30               | 0.20              | 0.88                                       | HFE181M35030□VA     |                 |
| 220  |              | 25×50               | 0.20              | 0.94                                       | HFE221M25050□VA     |                 |
| 220  |              | 30×30               | 0.20              | 0.84                                       | HFE221M30030□VA     |                 |
| 220  |              | 25×30               | 0.20              | 0.75                                       | HFE221M25030□VA     |                 |
| 220  |              | 30×40               | 0.20              | 0.96                                       | HFE221M30040□VA     |                 |
| 220  |              | 35×30               | 0.20              | 0.92                                       | HFE221M35030□VA     |                 |
| 270  |              | 30×45               | 0.20              | 1.20                                       | HFE271M30045□VA     |                 |
| 270  |              | 35×35               | 0.20              | 1.18                                       | HFE271M35035□VA     |                 |
| 330  |              | 30×50               | 0.20              | 1.40                                       | HFE331M30050□VA     |                 |
| 330  |              | 35×35               | 0.20              | 1.35                                       | HFE331M35035□VA     |                 |
| 330  |              | 35×40               | 0.20              | 1.39                                       | HFE331M35040□VA     |                 |
| 390  |              | 30×55               | 0.20              | 1.58                                       | HFE391M30055□VA     |                 |
| 390  | 35×45        | 0.20                | 1.58              | HFE391M35045□VA                            |                     |                 |
| 470  | 35×50        | 0.20                | 1.83              | HFE471M35050□VA                            |                     |                 |
| 560  | 35×60        | 0.20                | 2.10              | HFE561M35060□VA                            |                     |                 |

|     |       |      |      |                  |
|-----|-------|------|------|------------------|
| 270 | 25×50 | 0.18 | 1.29 | HFG271M25050□□VA |
| 270 | 30×40 | 0.18 | 1.22 | HFG271M30040□□VA |
| 330 | 30×45 | 0.18 | 1.55 | HFG331M30045□□VA |
| 330 | 35×25 | 0.18 | 1.34 | HFG331M35025□□VA |
| 330 | 30×30 | 0.18 | 1.31 | HFG331M30030□□VA |

|     |       |      |      |                  |
|-----|-------|------|------|------------------|
| 560 | 35×45 | 0.20 | 1.86 | HFE561M35045□□VA |
| 680 | 35×65 | 0.20 | 2.40 | HFE681M35065□□VA |
| 680 | 40×60 | 0.20 | 2.50 | HFE681M40060□□VA |
| 680 | 35×50 | 0.20 | 2.14 | HFE681M35050□□VA |
| 680 | 35×60 | 0.20 | 2.32 | HFE681M35060□□VA |

\*产品编码中□内为产品端子引出型式代码 \*□Enter the appropriate terminal code

## HF 系列 SERIES

### ◆产品一览表 Standard Ratings

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF) | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple Curr<br>ent<br>105°C/120Hz<br>(A rms) | Catalog Part Number |
|--|-------------|---------------------|--------------------|--|---------------------|
| 420  | 100         | 22×25               | 0.18               | 0.61   | HFF101M22025□□VA    |
| 450<br>(500)                               | 820         | 35×75               | 0.20               | 2.88   | HFE821M35075□□VA    |
|  | 820         | 40×65               | 0.20               | 2.90   | HFE821M40065□□VA    |
|  | 1000        | 35×90               | 0.20               | 3.46   | HFE102M35090□□VA    |
|  | 1000        | 40×80               | 0.20               | 3.54   | HFE102M40080□□VA    |
|  | 1200        | 40×95               | 0.20               | 4.40   | HFE122M40095□□VA    |
|  | 1200        | 45×75               | 0.20               | 4.10   | HFE122M45075□□VA    |
|  | 1200        | 50×65               | 0.20               | 4.10   | HFE122M50065□□VA    |
|  | 1500        | 40×100              | 0.20               | 4.80   | HFE152M40100□□VA    |
|  | 1500        | 45×90               | 0.20               | 4.90   | HFE152M45090□□VA    |
|  | 1500        | 50×80               | 0.20               | 5.00   | HFE152M50080□□VA    |
| 1800                                       | 50×95       | 0.20                | 5.60               | HFE182M50095□□VA                             |                     |
| 2200                                       | 50×110      | 0.20                | 6.50               | HFE222M50110□□VA                             |                     |
| 500<br>(550)                               | 39          | 22×30               | 0.20               | 0.35   | HFC390M22030□□VA    |
|  | 47          | 22×35               | 0.20               | 0.42   | HFC470M22035□□VA    |
|  | 56          | 22×40               | 0.20               | 0.47   | HFC560M22040□□VA    |
|  | 68          | 22×45               | 0.20               | 0.54   | HFC680M22045□□VA    |
|  | 68          | 25×30               | 0.20               | 0.54   | HFC680M25030□□VA    |
|  | 82          | 22×50               | 0.20               | 0.62   | HFC820M22050□□VA    |
|  | 82          | 25×40               | 0.20               | 0.62   | HFC820M25040□□VA    |
|  | 100         | 25×45               | 0.20               | 0.67   | HFC101M25045□□VA    |
|  | 100         | 30×30               | 0.20               | 0.62   | HFC101M30030□□VA    |
|  | 120         | 25×50               | 0.20               | 0.77   | HFC121M25050□□VA    |
|  | 120         | 30×35               | 0.20               | 0.72   | HFC121M30035□□VA    |
|  | 120         | 35×30               | 0.20               | 0.72   | HFC121M35030□□VA    |
|  | 150         | 30×40               | 0.20               | 0.85   | HFC151M30040□□VA    |
|  | 150         | 35×35               | 0.20               | 0.85   | HFC151M35035□□VA    |
|  | 180         | 30×45               | 0.20               | 0.93   | HFC181M30045□□VA    |
|  | 180         | 35×40               | 0.20               | 0.93   | HFC181M35040□□VA    |
|  | 220         | 30×50               | 0.20               | 1.12   | HFC221M30050□□VA    |
|  | 220         | 35×45               | 0.20               | 1.12   | HFC221M35045□□VA    |
|  | 270         | 30×55               | 0.20               | 1.29   | HFC271M30055□□VA    |
|  | 270         | 35×50               | 0.20               | 1.29   | HFC271M35050□□VA    |
|  | 330         | 35×60               | 0.20               | 1.62   | HFC331M35060□□VA    |
|  | 470         | 35×60               | 0.20               | 2.00   | HFC471M35060□□VA    |
|  | 560         | 35×65               | 0.20               | 2.20   | HFC561M35065□□VA    |
|  | 560         | 40×55               | 0.20               | 2.20   | HFC561M40055□□VA    |
|  | 680         | 35×75               | 0.20               | 2.60   | HFC681M35075□□VA    |
|  | 680         | 40×70               | 0.20               | 2.70   | HFC681M40070□□VA    |
|  | 820         | 40×75               | 0.20               | 3.10   | HFC821M40075□□VA    |
|  | 820         | 45×60               | 0.20               | 3.00   | HFC821M45060□□VA    |

\*产品编码中□内为产品端子引出型式代码  
\*□Enter the appropriate terminal code

\*记载之外的体积，请另行咨询。  
\* Please ask for advice for other sizes.

\*铝电解电容器由于承受纹波电流而发热，随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。

\*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.

| WV <sub>DC</sub><br>(Surge Voltage)<br>(V) | Cap<br>(μF)  | Size<br>D×L<br>(mm) | tanδ<br>20°C/120Hz | Ripple Curr<br>ent<br>105°C/120Hz<br>(A rms) | Catalog Part Number |                  |
|--|--------------|---------------------|--------------------|--|---------------------|------------------|
| 500<br>(550)                               | 1000         | 40×90               | 0.20               | 3.70   | HFC102M40090□□VA    |                  |
|  | 1000         | 45×75               | 0.20               | 3.60   | HFC102M45075□□VA    |                  |
|  | 1200         | 40×100              | 0.20               | 4.20   | HFC122M40100□□VA    |                  |
|  | 1200         | 45×85               | 0.20               | 4.10   | HFC122M45085□□VA    |                  |
|  | 1200         | 50×80               | 0.20               | 4.30   | HFC122M50080□□VA    |                  |
|  | 1500         | 45×100              | 0.20               | 4.80   | HFC152M45100□□VA    |                  |
|  | 1500         | 50×90               | 0.20               | 4.90   | HFC152M50090□□VA    |                  |
|  | 1800         | 50×105              | 0.20               | 5.60   | HFC182M50105□□VA    |                  |
|  | 550<br>(600) | 180                 | 30×50              | 0.20   | 1.00                | HFZ181M30050□□VA |
|  |              | 220                 | 30×60              | 0.20   | 1.20                | HFZ221M30060□□VA |
| 270  |              | 35×50               | 0.20               | 1.30   | HFZ271M35050□□VA    |                  |
| 330  |              | 35×60               | 0.20               | 1.50   | HFZ331M35060□□VA    |                  |
| 390  |              | 35×70               | 0.20               | 1.80   | HFZ391M35070□□VA    |                  |
| 390  |              | 40×60               | 0.20               | 1.80   | HFZ391M40060□□VA    |                  |
| 470  |              | 35×80               | 0.20               | 2.10   | HFZ471M35080□□VA    |                  |
| 470  |              | 40×70               | 0.20               | 2.10   | HFZ471M40070□□VA    |                  |
| 560  |              | 35×90               | 0.20               | 2.40   | HFZ561M35090□□VA    |                  |
| 560  |              | 40×80               | 0.20               | 2.40   | HFZ561M40080□□VA    |                  |
| 680  |              | 40×90               | 0.20               | 2.80   | HFZ681M40090□□VA    |                  |
| 680  |              | 45×70               | 0.20               | 2.70   | HFZ681M45070□□VA    |                  |
| 820  |              | 45×85               | 0.20               | 3.20   | HFZ821M45085□□VA    |                  |
| 820  |              | 50×70               | 0.20               | 3.10   | HFZ821M50070□□VA    |                  |
| 1000                                       |              | 45×100              | 0.20               | 3.80   | HFZ102M45100□□VA    |                  |
| 1000                                       | 50×80        | 0.20                | 3.60               | HFZ102M50080□□VA                             |                     |                  |
| 1200                                       | 50×90        | 0.20                | 4.20               | HFZ122M50090□□VA                             |                     |                  |
| 600<br>(650)                               | 180          | 35×45               | 0.20               | 0.92   | HFB181M35045□□VA    |                  |
|  | 220          | 35×50               | 0.20               | 1.08   | HFB221M35050□□VA    |                  |
|  | 270          | 35×60               | 0.20               | 1.30   | HFB271M35060□□VA    |                  |
|  | 330          | 35×70               | 0.20               | 1.50   | HFB331M35070□□VA    |                  |
|  | 470          | 35×80               | 0.20               | 1.92   | HFB471M35080□□VA    |                  |
|  | 560          | 40×100              | 0.20               | 2.44   | HFB561M40100□□VA    |                  |