

HFG SERIES

NEW

105°C High Capacitance, High Ripple Current, 4-pin Snap-in Terminal Type

◆FEATURES

- Load Life : 105°C 5000 hours.
- Higher capacitance and longer lifetime than HXG series.
- RoHS compliance.



◆SPECIFICATIONS

| Items                                             | Characteristics                                                                                                                                                  |                                            |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Category Temperature Range                        | -25~+105℃                                                                                                                                                        |                                            |
| Rated Voltage Range                               | 350~450Vdc                                                                                                                                                       |                                            |
| Capacitance Tolerance                             | ±20% (20℃, 120Hz)                                                                                                                                                |                                            |
| Leakage Current(MAX)                              | I=3 √CV (After 5 minutes application of rated voltage)<br>I=Leakage Current(μA)                      C=Capacitance(μF)                      V=Rated Voltage(Vdc) |                                            |
| (tanδ)<br>Dissipation Factor(MAX)                 | 0.2 (20℃, 120Hz)                                                                                                                                                 |                                            |
| Endurance                                         | After applying rated voltage with rated ripple current for 5000 hours at 105℃, the capacitors shall meet the following requirements.                             |                                            |
|                                                   | Capacitance Change                                                                                                                                               | Within ±20% of the initial value.          |
|                                                   | Dissipation Factor                                                                                                                                               | Not more than 200% of the specified value. |
|                                                   | Leakage Current                                                                                                                                                  | Not more than the specified value.         |
| Low Temperature Stability<br>Impedance Ratio(MAX) | Rated Voltage (Vdc)                                                                                                                                              | 350~450                                    |
|                                                   | Z(-25℃)/Z(20℃)                                                                                                                                                   | 8                                          |

(120Hz)

◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | 60(50) | 120(100) | 300  | 500  | 1k   | 10k≤ |
|----------------|--------|----------|------|------|------|------|
| Coefficient    | 0.80   | 1.00     | 1.15 | 1.20 | 1.25 | 1.40 |

◆OPTION

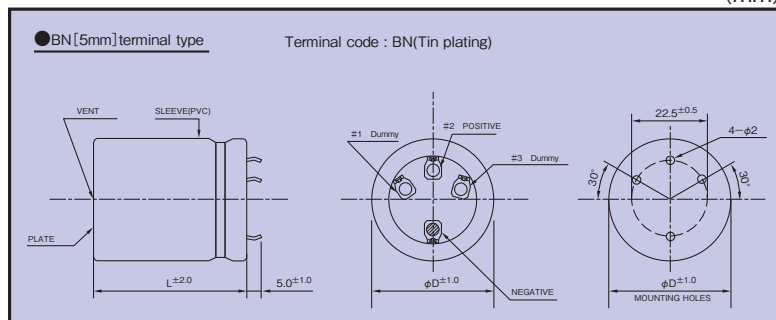
|                       | Code  |
|-----------------------|-------|
| PVC Sleeve with plate | Blank |

◆PART NUMBER

|               |        |             |                       |        |               |           |
|---------------|--------|-------------|-----------------------|--------|---------------|-----------|
| □□□           | HFG    | □□□□□       | M                     | □□□    | BN            | D×L       |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Terminal Code | Case Size |

◆DIMENSIONS

(mm)



**◆STANDARD SIZE**

| Cap(μF)<br>Vdc<br>φD | 350   |      |       |      |        |      |
|----------------------|-------|------|-------|------|--------|------|
|                      | φ35   |      | φ40   |      | φ45    |      |
| 560                  | 35×50 | 3.05 |       |      |        |      |
| 680                  | 35×55 | 3.35 |       |      |        |      |
| 820                  | 35×60 | 3.64 | 40×50 | 3.46 |        |      |
| 1000                 | 35×70 | 4.12 | 40×60 | 4.05 | 45×50  | 3.71 |
| 1200                 | 35×80 | 4.58 | 40×65 | 4.33 | 45×55  | 4.01 |
| 1500                 | 35×95 | 5.22 | 40×80 | 5.11 | 45×65  | 4.62 |
| 1800                 |       |      | 40×90 | 5.59 | 45×75  | 5.19 |
| 2200                 |       |      |       |      | 45×85  | 5.69 |
| 2700                 |       |      |       |      | 45×100 | 6.43 |

| Cap(μF)<br>Vdc<br>φD | 400   |      |       |      |        |      |
|----------------------|-------|------|-------|------|--------|------|
|                      | φ35   |      | φ40   |      | φ45    |      |
| 560                  | 35×50 | 3.03 |       |      |        |      |
| 680                  | 35×60 | 3.50 | 40×50 | 3.38 |        |      |
| 820                  | 35×65 | 3.78 | 40×55 | 3.69 |        |      |
| 1000                 | 35×75 | 4.25 | 40×65 | 4.24 | 45×50  | 3.61 |
| 1200                 | 35×95 | 4.97 | 40×75 | 4.75 | 45×60  | 4.26 |
| 1500                 |       |      | 40×90 | 5.40 | 45×70  | 4.83 |
| 1800                 |       |      |       |      | 45×80  | 5.36 |
| 2200                 |       |      |       |      | 45×100 | 6.30 |

| Cap(μF)<br>Vdc<br>φD | 420    |      |       |      |       |      |
|----------------------|--------|------|-------|------|-------|------|
|                      | φ35    |      | φ40   |      | φ45   |      |
| 470                  | 35×50  | 2.85 |       |      |       |      |
| 560                  | 35×55  | 3.12 | 40×50 | 3.22 |       |      |
| 680                  | 35×65  | 3.57 | 40×55 | 3.52 |       |      |
| 820                  | 35×75  | 4.00 | 40×60 | 3.81 | 45×50 | 3.52 |
| 1000                 | 35×85  | 4.44 | 40×70 | 4.32 | 45×60 | 4.13 |
| 1200                 | 35×100 | 5.00 | 40×80 | 4.80 | 45×65 | 4.40 |
| 1500                 |        |      | 40×95 | 5.48 | 45×80 | 5.21 |
| 1800                 |        |      |       |      | 45×90 | 5.70 |

| Cap(μF)<br>Vdc<br>φD | 450   |      |       |      |        |      |
|----------------------|-------|------|-------|------|--------|------|
|                      | φ35   |      | φ40   |      | φ45    |      |
| 390                  | 35×50 | 2.76 |       |      |        |      |
| 470                  | 35×55 | 3.03 |       |      |        |      |
| 560                  | 35×60 | 3.30 | 40×50 | 3.14 |        |      |
| 680                  | 35×70 | 3.76 | 40×60 | 3.66 | 45×50  | 3.41 |
| 820                  | 35×80 | 4.20 | 40×70 | 4.18 | 45×55  | 3.71 |
| 1000                 | 35×95 | 4.78 | 40×75 | 4.47 | 45×65  | 4.34 |
| 1200                 |       |      | 40×90 | 5.12 | 45×70  | 4.59 |
| 1500                 |       |      |       |      | 45×85  | 5.36 |
| 1800                 |       |      |       |      | 45×100 | 6.08 |

↑  
 Ripple Current (A r.m.s./120Hz, 105°C)  
 Case Size φD×L(mm)