

HFG シリーズ
SERIES

105°C 大容量 高リップル 4端子品
105°C High Capacitance, High Ripple Current, 4-pin Snap-in Terminal Type

・105°C 5000時間品。
Load Life : 105°C 5000 hours.



◆規格表 / SPECIFICATIONS

| 項目 Items | 特 性 Characteristics | | | | | | |
|--|---|-------------------------------|---|------------------------------|--|-------------------------|---|
| カテゴリ温度範囲 Category Temperature Range | -25~+105°C | | | | | | |
| 定格電圧範囲 Rated Voltage Range | 350~450Vdc | | | | | | |
| 静電容量許容差 Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | |
| 漏れ電流 Leakage Current (MAX) | $I=3\sqrt{CV}$ (定格電圧印加5分後) $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=漏れ電流(μA) Leakage Current C=静電容量(μF) Capacitance V=定格電圧(Vdc) Rated Voltage | | | | | | |
| 損失角の正接 (tanδ) Dissipation Factor (MAX) | 0.2 (20°C, 120Hz) | | | | | | |
| 耐 久 性 Endurance | 105°C中で5000時間定格電圧(リップル重畳)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for 5000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>静電容量変化率 Capacitance Change</td> <td>初期値の±20%以内 Within ±20% of the initial value.</td> </tr> <tr> <td>損失角の正接 Dissipation Factor</td> <td>規格値の200%以下 Not more than 200% of the specified value.</td> </tr> <tr> <td>漏れ電流 Leakage Current</td> <td>規格値以下 Not more than the specified value.</td> </tr> </table> | 静電容量変化率 Capacitance Change | 初期値の±20%以内 Within ±20% of the initial value. | 損失角の正接 Dissipation Factor | 規格値の200%以下 Not more than 200% of the specified value. | 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. |
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| 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | | | | | | |
| 低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX) | <table border="1"> <tr> <td>定格電圧(Vdc) Rated Voltage</td> <td>350~450</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> <td></td> </tr> </table> | 定格電圧(Vdc) Rated Voltage | 350~450 | (120Hz) | Z(-25°C)/Z(20°C) | 8 | |
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| Z(-25°C)/Z(20°C) | 8 | | | | | | |

◆リップル電流補正係数 / MULTIPLIER FOR RIPPLE CURRENT

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

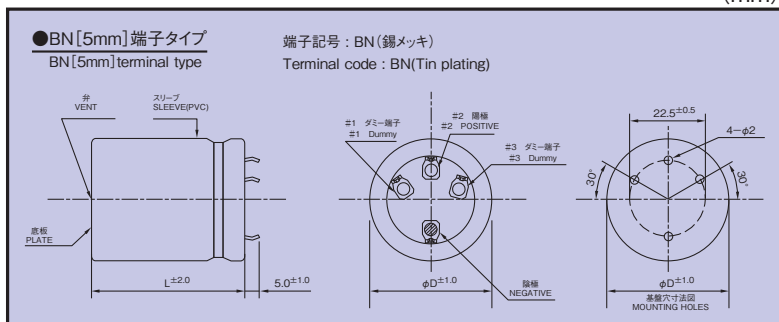
◆副記号 / OPTION

| | 記号 Code |
|---------------------------------------|----------|
| PVCスリーブ、底板あり PVC Sleeve with plate | なし Blank |

◆呼称方法 / PART NUMBER

| | | | | | | |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-----------------------|---------------------|
| □□□ | HFG | □□□□□ | M | □□□ | BN | D×L |
| 定格電圧 Rated Voltage | シリーズ名 Series | 静電容量 Capacitance | 静電容量許容差 Capacitance Tolerance | 副記号 Option | 端子記号 Terminal Code | ケースサイズ Case Size |

◆寸法図 / DIMENSIONS (mm)



◆標準品一覧表 STANDARD SIZE

| Cap(μF) | Vdc | | 350 | | | |
|---------|-----|--|-------|------|-------|--------|
| | φD | | φ35 | | 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 |
| 1200 | | | 35×80 | 4.58 | 40×65 | 4.33 |
| 1500 | | | 35×95 | 5.22 | 40×80 | 5.11 |
| 1800 | | | | | 40×90 | 5.59 |
| 2200 | | | | | | 45×75 |
| 2700 | | | | | | 45×85 |
| | | | | | | 45×100 |
| | | | | | | 6.43 |

| Cap(μF) | Vdc | | 400 | | | |
|---------|-----|--|-------|------|-------|--------|
| | φD | | φ35 | | 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 |
| 1200 | | | 35×95 | 4.97 | 40×75 | 4.75 |
| 1500 | | | | | 40×90 | 5.40 |
| 1800 | | | | | | 45×70 |
| 2200 | | | | | | 45×80 |
| | | | | | | 45×100 |
| | | | | | | 6.30 |

| Cap(μF) | Vdc | | 420 | | | |
|---------|-----|--|--------|------|-------|-------|
| | φD | | φ35 | | 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 |
| 1000 | | | 35×85 | 4.44 | 40×70 | 4.32 |
| 1200 | | | 35×100 | 5.00 | 40×80 | 4.80 |
| 1500 | | | | | 40×95 | 5.48 |
| 1800 | | | | | | 45×80 |
| | | | | | | 45×90 |
| | | | | | | 5.70 |

| Cap(μF) | Vdc | | 450 | | | |
|---------|-----|--|-------|------|-------|--------|
| | φD | | φ35 | | 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 |
| 820 | | | 35×80 | 4.20 | 40×70 | 4.18 |
| 1000 | | | 35×95 | 4.78 | 40×75 | 4.47 |
| 1200 | | | | | 40×90 | 5.12 |
| 1500 | | | | | | 45×70 |
| 1800 | | | | | | 45×85 |
| | | | | | | 45×100 |
| | | | | | | 6.08 |

↑ リプル電流
Ripple Current (A r.m.s./120Hz, 105°C)

↑ ケースサイズ Case Size φD×L(mm)