

UFG SERIES

NEW

85°C High Capacitance, 4-pin Snap-in Terminal Type

◆FEATURES

- Load Life : 85°C 10000 hours.
- Higher capacitance and longer lifetime than USG series.
- RoHS compliance.



◆SPECIFICATIONS

| Items | Characteristics | |
|--|--|--|
| Category Temperature Range | -25~+85°C | |
| Rated Voltage Range | 350~450Vdc | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | |
| Leakage Current(MAX) | $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I =Leakage Current(μA) C =Capacitance(μF) V =Rated Voltage(Vdc) | |
| (tanδ) Dissipation Factor(MAX) | 0.2 (20°C, 120Hz) | |
| Endurance | After applying rated voltage with rated ripple current for 10000 hours at 85°C, 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. |
| Low Temperature Stability Impedance Ratio(MAX) | Rated Voltage (Vdc) | 350~450 (120Hz) |
| | $Z(-25°C)/Z(20°C)$ | 8 |

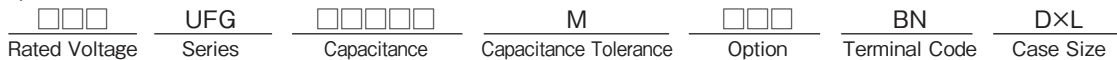
◆MULTIPLIER FOR RIPPLE CURRENT

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

◆OPTION

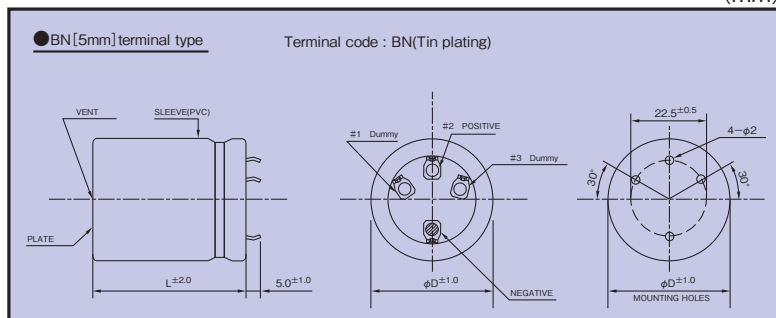
| | Code |
|-----------------------|-------|
| PVC Sleeve with plate | Blank |

◆PART NUMBER



◆DIMENSIONS

(mm)



◆ STANDARD SIZE

| Cap (μ F) | Vdc | | 350 | | | | | |
|-------------------|----------|--|-----------|-----------|-----------|------|--------|------|
| | ϕ D | | ϕ 35 | ϕ 40 | ϕ 45 | | | |
| 680 | | | 35×50 | 4.02 | | | | |
| 820 | | | 35×55 | 4.41 | 40×50 | 4.53 | | |
| 1000 | | | 35×65 | 5.04 | 40×55 | 4.95 | | |
| 1200 | | | 35×75 | 5.65 | 40×60 | 5.35 | 45×50 | 4.92 |
| 1500 | | | 35×95 | 6.64 | 40×70 | 6.08 | 45×60 | 5.78 |
| 1800 | | | | | 40×90 | 7.23 | 45×65 | 6.14 |
| 2200 | | | | | | | 45×85 | 7.48 |
| 2700 | | | | | | | 45×100 | 8.47 |

| Cap (μ F) | Vdc | | 400 | | | | | |
|-------------------|----------|--|-----------|-----------|-----------|------|-------|------|
| | ϕ D | | ϕ 35 | ϕ 40 | ϕ 45 | | | |
| 560 | | | 35×50 | 3.83 | | | | |
| 680 | | | 35×60 | 4.42 | 40×50 | 4.33 | | |
| 820 | | | 35×65 | 4.80 | 40×55 | 4.72 | 45×50 | 4.74 |
| 1000 | | | 35×80 | 5.58 | 40×65 | 5.42 | 45×55 | 5.15 |
| 1200 | | | 35×90 | 6.15 | 40×75 | 6.08 | 45×60 | 5.54 |
| 1500 | | | | | 40×90 | 7.00 | 45×70 | 6.28 |
| 1800 | | | | | | | 45×80 | 6.98 |
| 2200 | | | | | | | 45×95 | 7.98 |

| Cap (μ F) | Vdc | | 420 | | | | | |
|-------------------|----------|--|-----------|-----------|-----------|------|--------|------|
| | ϕ D | | ϕ 35 | ϕ 40 | ϕ 45 | | | |
| 560 | | | 35×50 | 3.77 | | | | |
| 680 | | | 35×60 | 4.35 | 40×50 | 4.28 | | |
| 820 | | | 35×65 | 4.73 | 40×55 | 4.68 | | |
| 1000 | | | 35×80 | 5.49 | 40×65 | 5.36 | 45×50 | 4.70 |
| 1200 | | | 35×95 | 6.20 | 40×75 | 6.02 | 45×60 | 5.52 |
| 1500 | | | | | 40×90 | 6.88 | 45×70 | 6.26 |
| 1800 | | | | | | | 45×85 | 7.22 |
| 2200 | | | | | | | 45×100 | 8.18 |

| Cap (μ F) | Vdc | | 450 | | | | | |
|-------------------|----------|--|-----------|-----------|-----------|------|-------|------|
| | ϕ D | | ϕ 35 | ϕ 40 | ϕ 45 | | | |
| 470 | | | 35×50 | 3.61 | | | | |
| 560 | | | 35×55 | 3.96 | 40×50 | 4.11 | | |
| 680 | | | 35×65 | 4.52 | 40×55 | 4.51 | | |
| 820 | | | 35×75 | 5.06 | 40×60 | 4.90 | 45×50 | 4.60 |
| 1000 | | | 35×85 | 5.63 | 40×70 | 5.56 | 45×60 | 5.38 |
| 1200 | | | 35×100 | 6.34 | 40×80 | 6.19 | 45×65 | 5.76 |
| 1500 | | | | | 40×95 | 7.07 | 45×80 | 6.81 |
| 1800 | | | | | | | 45×90 | 7.46 |

↑ Ripple Current (A r.m.s./120Hz, 85°C)
 ↑ Case Size ϕ D×L(mm)