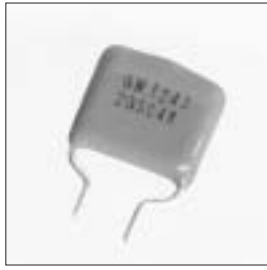
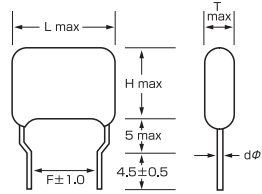


# 高耐熱、高周波回路用コンデンサ HEAT PROOF AND HIGH FREQUENCY



## FGSM (161)

### メタライズドポリプロピレン METALLIZED POLYPROPYLENE



#### 特徴

- 耐熱性向上PPフィルムを採用し、使用温度範囲を拡大。-40~105℃(電圧軽減により125℃まで使用可能)
- 電極抵抗軽減設計により、大電流化を実現。
- 小型、高耐熱化対応により、コストパフォーマンスを向上。

#### 用途

- インバータ照明回路
- 共振型SW電源

#### 電気特性

使用温度範囲 -40℃~105℃(電圧軽減により125℃まで使用可能)  
 定格電圧 250VDC (250Vo-p)・315VDC (315Vo-p)  
 400VDC (400Vo-p)・450VDC (450Vo-p)  
 630VDC (630Vo-p)  
 静電容量範囲 0.01μF~4.7μF  
 静電容量許容差 ±3%(H) ±5%(J)  
 誘電正接 ≤0.08%(at 1kHz 20℃)  
 耐電圧 定格電圧×175%(1~5秒)  
 絶縁抵抗 30,000MΩ≤(≤0.33μF at 20℃)  
 10,000MΩμF≤(0.33μF< at 20℃)

#### CHARACTERISTICS

- High temperature proof PP film used to expand temperature range.  
-40 to 105℃ (Can be used max 125℃ by rated voltage derating)
- Higher Current flows are available by electrode resistance reduction design.
- High cost performance are achieved by compact sized, and high temperature resistance.

#### APPLICATIONS

- Electronic Ballast
- Resonance Switching power supply

#### ELECTRIC CHARACTERISTICS

Operation Temperature -40℃~105℃(Can be used max 125℃ by rated voltage derating)  
 Range Voltage 250VDC (250Vo-p)・315VDC (315Vo-p)  
 400VDC (400Vo-p)・450VDC (450Vo-p)  
 630VDC (630Vo-p)  
 Capacitance range 0.01μF~4.7μF  
 Capacitance tolerance ±3%(H) ±5%(J)  
 Dissipation factor ≤0.08%(at 1kHz 20℃)  
 Withstand Voltage Rated voltage×175%(1~5sec)  
 Dielectric strength 30,000MΩ≤(≤0.33μF at 20℃)  
 10,000MΩμF≤(0.33μF< at 20℃)

FGSM(161)    VDC

| Capacity (μF) | DIMENSIONS (mm) 250VDC |      |     |     |     | DIMENSIONS (mm) 315VDC |      |      |      |     | DIMENSIONS (mm) 400VDC |      |      |     |     | DIMENSIONS (mm) 450VDC |      |      |      |     | DIMENSIONS (mm) 630VDC |      |      |      |     |
|---------------|------------------------|------|-----|-----|-----|------------------------|------|------|------|-----|------------------------|------|------|-----|-----|------------------------|------|------|------|-----|------------------------|------|------|------|-----|
|               | L                      | H    | T   | F   | d   | L                      | H    | T    | F    | d   | L                      | H    | T    | F   | d   | L                      | H    | T    | F    | d   | L                      | H    | T    | F    | d   |
| 103 (0.01)    | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 113 (0.011)   | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 123 (0.012)   | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 133 (0.013)   | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 153 (0.015)   | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 163 (0.016)   | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 183 (0.018)   | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 203 (0.02)    | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 223 (0.022)   | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 15.5                   | 12.5 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 243 (0.024)   | 13.0                   | 10.0 | 5.5 | 7.5 | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5 | 0.8 | 15.5                   | 12.5 | 5.5  | 7.5  | 0.8 | 13.5                   | 10.0 | 5.5  | 7.5  | 0.8 |
| 273 (0.027)   | 13.0                   | 10.0 | 6.0 | 7.5 | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5  | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5 | 0.8 | 15.5                   | 12.5 | 6.0  | 7.5  | 0.8 | 13.5                   | 10.5 | 6.0  | 7.5  | 0.8 |
| 303 (0.03)    | 13.0                   | 10.0 | 6.0 | 7.5 | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5  | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5 | 0.8 | 15.5                   | 13.0 | 6.0  | 7.5  | 0.8 | 13.5                   | 10.5 | 6.0  | 7.5  | 0.8 |
| 333 (0.033)   | 13.0                   | 10.0 | 6.0 | 7.5 | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5  | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5 | 0.8 | 15.5                   | 12.5 | 5.5  | 7.5  | 0.8 | 13.5                   | 11.0 | 6.0  | 7.5  | 0.8 |
| 363 (0.036)   | 13.0                   | 10.0 | 6.0 | 7.5 | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5  | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5 | 0.8 | 15.5                   | 12.5 | 6.0  | 7.5  | 0.8 | 13.5                   | 11.0 | 6.5  | 7.5  | 0.8 |
| 393 (0.039)   | 13.0                   | 10.0 | 6.0 | 7.5 | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5  | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5 | 0.8 | 15.5                   | 12.5 | 6.0  | 7.5  | 0.8 | 13.5                   | 11.5 | 6.5  | 7.5  | 0.8 |
| 433 (0.043)   | 13.0                   | 10.0 | 6.0 | 7.5 | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5  | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5 | 0.8 | 15.5                   | 13.0 | 6.0  | 7.5  | 0.8 | 13.5                   | 11.5 | 7.0  | 7.5  | 0.8 |
| 473 (0.047)   | 13.0                   | 10.0 | 6.0 | 7.5 | 0.8 | 18.0                   | 13.0 | 6.0  | 10.0 | 0.8 | 13.5                   | 10.0 | 6.0  | 7.5 | 0.8 | 15.5                   | 13.0 | 6.5  | 7.5  | 0.8 | 15.5                   | 12.5 | 7.0  | 7.5  | 0.8 |
| 513 (0.051)   | 13.0                   | 10.5 | 6.5 | 7.5 | 0.8 | 18.0                   | 13.0 | 6.0  | 10.0 | 0.8 | 13.5                   | 10.5 | 6.5  | 7.5 | 0.8 | 15.5                   | 13.5 | 6.5  | 7.5  | 0.8 | 15.5                   | 12.5 | 7.5  | 7.5  | 0.8 |
| 563 (0.056)   | 13.0                   | 10.5 | 6.5 | 7.5 | 0.8 | 18.0                   | 13.0 | 6.0  | 10.0 | 0.8 | 13.5                   | 10.5 | 6.5  | 7.5 | 0.8 | 15.5                   | 13.5 | 6.5  | 7.5  | 0.8 | 15.5                   | 13.0 | 7.5  | 7.5  | 0.8 |
| 623 (0.062)   | 13.0                   | 11.0 | 6.5 | 7.5 | 0.8 | 18.0                   | 13.0 | 6.0  | 10.0 | 0.8 | 13.5                   | 11.0 | 6.5  | 7.5 | 0.8 | 15.5                   | 14.0 | 7.0  | 7.5  | 0.8 | 15.5                   | 13.0 | 8.0  | 7.5  | 0.8 |
| 683 (0.068)   | 13.0                   | 10.5 | 7.0 | 7.5 | 0.8 | 18.0                   | 13.0 | 6.0  | 10.0 | 0.8 | 13.5                   | 11.0 | 7.0  | 7.5 | 0.8 | 18.0                   | 13.0 | 6.5  | 10.0 | 0.8 | 15.5                   | 13.0 | 9.0  | 7.5  | 0.8 |
| 753 (0.075)   | 13.0                   | 11.0 | 7.0 | 7.5 | 0.8 | 18.0                   | 13.0 | 6.5  | 10.0 | 0.8 | 13.5                   | 11.5 | 7.0  | 7.5 | 0.8 | 18.0                   | 13.5 | 6.5  | 10.0 | 0.8 | 15.5                   | 13.5 | 9.0  | 7.5  | 0.8 |
| 823 (0.082)   | 13.0                   | 11.0 | 7.0 | 7.5 | 0.8 | 18.0                   | 13.5 | 6.5  | 10.0 | 0.8 | 13.5                   | 11.5 | 7.5  | 7.5 | 0.8 | 18.0                   | 13.5 | 7.0  | 10.0 | 0.8 | 15.5                   | 14.0 | 9.0  | 7.5  | 0.8 |
| 913 (0.091)   | 13.0                   | 11.5 | 7.5 | 7.5 | 0.8 | 18.0                   | 13.5 | 7.0  | 10.0 | 0.8 | 13.5                   | 12.0 | 7.5  | 7.5 | 0.8 | 18.0                   | 14.0 | 7.0  | 10.0 | 0.8 | 15.5                   | 14.5 | 9.5  | 7.5  | 0.8 |
| 104 (0.1)     | 13.5                   | 11.0 | 6.5 | 7.5 | 0.8 | 18.0                   | 14.0 | 7.0  | 10.0 | 0.8 | 15.5                   | 12.5 | 6.5  | 7.5 | 0.8 | 18.0                   | 14.0 | 7.5  | 10.0 | 0.8 | 18.5                   | 14.5 | 8.0  | 7.5  | 0.8 |
| 114 (0.11)    | 13.5                   | 11.0 | 7.0 | 7.5 | 0.8 | 18.0                   | 14.0 | 7.5  | 10.0 | 0.8 | 15.5                   | 12.5 | 7.0  | 7.5 | 0.8 | 18.0                   | 14.5 | 7.5  | 10.0 | 0.8 | 18.5                   | 15.0 | 8.0  | 7.5  | 0.8 |
| 124 (0.12)    | 13.5                   | 11.0 | 7.0 | 7.5 | 0.8 | 18.0                   | 14.5 | 7.5  | 10.0 | 0.8 | 15.5                   | 12.5 | 7.0  | 7.5 | 0.8 | 18.0                   | 15.0 | 8.0  | 10.0 | 0.8 | 18.5                   | 15.0 | 8.5  | 7.5  | 0.8 |
| 134 (0.13)    | 13.5                   | 11.5 | 7.0 | 7.5 | 0.8 | 18.0                   | 14.5 | 8.0  | 10.0 | 0.8 | 15.5                   | 13.0 | 7.5  | 7.5 | 0.8 | 18.0                   | 15.0 | 8.0  | 10.0 | 0.8 | 18.5                   | 15.5 | 8.5  | 7.5  | 0.8 |
| 154 (0.15)    | 13.5                   | 12.5 | 7.0 | 7.5 | 0.8 | 18.0                   | 15.0 | 8.5  | 10.0 | 0.8 | 15.5                   | 13.5 | 7.5  | 7.5 | 0.8 | 18.0                   | 15.5 | 8.5  | 10.0 | 0.8 | 18.5                   | 16.0 | 9.5  | 7.5  | 0.8 |
| 164 (0.16)    | 13.5                   | 13.0 | 7.0 | 7.5 | 0.8 | 18.0                   | 13.0 | 6.0  | 10.0 | 0.8 | 15.5                   | 13.5 | 8.0  | 7.5 | 0.8 | 18.0                   | 16.0 | 9.0  | 10.0 | 0.8 | 18.5                   | 16.0 | 9.0  | 7.5  | 0.8 |
| 184 (0.18)    | 13.5                   | 11.5 | 7.0 | 7.5 | 0.8 | 18.0                   | 13.5 | 6.5  | 10.0 | 0.8 | 15.5                   | 14.0 | 7.0  | 7.5 | 0.8 | 18.0                   | 16.5 | 9.5  | 10.0 | 0.8 | 18.5                   | 16.5 | 10.0 | 7.5  | 0.8 |
| 204 (0.2)     | 13.5                   | 11.5 | 7.5 | 7.5 | 0.8 | 18.0                   | 13.5 | 7.0  | 10.0 | 0.8 | 15.5                   | 14.5 | 7.0  | 7.5 | 0.8 | 20.0                   | 16.0 | 9.0  | 10.0 | 0.8 | 18.5                   | 17.0 | 10.5 | 7.5  | 0.8 |
| 224 (0.22)    | 13.5                   | 12.0 | 7.5 | 7.5 | 0.8 | 18.0                   | 14.0 | 7.0  | 10.0 | 0.8 | 15.5                   | 14.5 | 7.5  | 7.5 | 0.8 | 20.0                   | 16.5 | 9.5  | 10.0 | 0.8 | 18.5                   | 17.5 | 11.5 | 7.5  | 0.8 |
| 244 (0.24)    | 13.5                   | 12.0 | 7.5 | 7.5 | 0.8 | 18.0                   | 14.0 | 7.5  | 10.0 | 0.8 | 18.5                   | 15.0 | 7.5  | 7.5 | 0.8 | 20.0                   | 16.5 | 10.0 | 10.0 | 0.8 | 18.5                   | 18.0 | 12.0 | 7.5  | 0.8 |
| 274 (0.27)    | 13.5                   | 12.5 | 7.5 | 7.5 | 0.8 | 18.0                   | 14.5 | 8.0  | 10.0 | 0.8 | 18.5                   | 15.5 | 8.0  | 7.5 | 0.8 | 20.0                   | 17.0 | 10.5 | 10.0 | 0.8 | 20.5                   | 18.5 | 11.0 | 7.5  | 0.8 |
| 304 (0.3)     | 13.5                   | 12.5 | 8.0 | 7.5 | 0.8 | 18.0                   | 15.0 | 8.0  | 10.0 | 0.8 | 18.5                   | 15.5 | 8.5  | 7.5 | 0.8 | 20.0                   | 17.5 | 11.0 | 10.0 | 0.8 | 20.5                   | 19.0 | 10.0 | 7.5  | 0.8 |
| 334 (0.33)    | 13.5                   | 13.0 | 8.0 | 7.5 | 0.8 | 18.0                   | 15.0 | 8.5  | 10.0 | 0.8 | 18.5                   | 16.0 | 9.0  | 7.5 | 0.8 | 20.0                   | 18.5 | 11.5 | 10.0 | 0.8 | 20.5                   | 19.5 | 10.5 | 7.5  | 0.8 |
| 364 (0.36)    | 13.5                   | 13.5 | 8.5 | 7.5 | 0.8 | 18.0                   | 15.5 | 8.5  | 10.0 | 0.8 | 18.5                   | 16.5 | 9.0  | 7.5 | 0.8 | 23.0                   | 20.0 | 12.5 | 12.5 | 0.8 | 20.5                   | 20.0 | 11.0 | 7.5  | 0.8 |
| 394 (0.39)    | 13.5                   | 13.5 | 9.0 | 7.5 | 0.8 | 18.0                   | 16.0 | 9.0  | 10.0 | 0.8 | 18.5                   | 16.5 | 10.0 | 7.5 | 0.8 | 23.0                   | 20.5 | 13.5 | 12.5 | 0.8 | 20.5                   | 20.5 | 11.5 | 7.5  | 0.8 |
| 434 (0.43)    | 15.5                   | 13.5 | 8.5 | 7.5 | 0.8 | 18.0                   | 16.0 | 9.5  | 10.0 | 0.8 | 18.5                   | 17.0 | 10.5 | 7.5 | 0.8 | 23.0                   | 21.0 | 14.0 | 12.5 | 0.8 | 20.5                   | 21.0 | 12.0 | 7.5  | 0.8 |
| 474 (0.47)    | 15.5                   | 14.0 | 7.0 | 7.5 | 0.8 | 23.0                   | 15.0 | 8.0  | 12.5 | 0.8 | 18.5                   | 17.5 | 9.5  | 7.5 | 0.8 | 23.0                   | 21.5 | 14.5 | 12.5 | 0.8 | 20.5                   | 21.5 | 12.5 | 7.5  | 0.8 |
| 514 (0.51)    | 15.5                   | 14.5 | 7.5 | 7.5 | 0.8 | 23.0                   | 15.0 | 8.5  | 12.5 | 0.8 | 20.5                   | 17.0 | 10.0 | 7.5 | 0.8 | 23.0                   | 19.5 | 12.5 | 12.5 | 0.8 | 25.5                   | 20.5 | 12.0 | 17.5 | 0.8 |
| 564 (0.56)    | 15.5                   | 14.5 | 7.5 | 7.5 | 0.8 | 23.0                   | 15.5 | 8.5  | 12.5 | 0.8 | 20.5                   | 17.5 | 10.5 | 7.5 | 0.8 | 23.0                   | 20.0 | 13.0 | 12.5 | 0.8 | 25.5                   | 21.0 | 13.0 | 17.5 | 0.8 |
| 624 (0.62)    | 15.5                   | 15.0 | 8.0 | 7.5 | 0.8 | 23.0                   | 16.0 | 9.0  | 12.5 | 0.8 | 20.5                   | 18.0 | 11.0 | 7.5 | 0.8 | 23.0                   | 21.0 | 14.0 | 12.5 | 0.8 | 25.5                   | 22.0 | 13.5 | 17.5 | 0.8 |
| 684 (0.68)    | 15.5                   | 15.5 | 8.5 | 7.5 | 0.8 | 23.0                   | 16.5 | 9.5  | 12.5 | 0.8 | 20.5                   | 18.5 | 12.0 | 7.5 | 0.8 | 23.0                   | 21.5 | 14.5 | 12.5 | 0.8 | 25.5                   | 22.5 | 14.0 | 17.5 | 0.8 |
| 754 (0.75)    | 15.5                   | 16.0 | 9.0 | 7.5 | 0.8 | 23.0                   | 16.5 | 10.0 | 12.5 | 0.8 | 20.5                   | 19.0 |      |     |     |                        |      |      |      |     |                        |      |      |      |     |

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