

Metallized Polyester Film Capacitor FMPE

● 特點

- 良好的自癒性
- 安全膜結構
- 小型化
- 符合 RoHs

● 結構

- 電介質：金屬化聚酯薄膜
- 捲繞：無感式
- 導線：鍍錫銅包鋼線
- 外層：環氧樹脂粉末包封 (UL94 V-0)

● 應用

- 直流多用途
- 功率因素校正(PFC)使用

● 電器特性

|                |   |
|----------------|---|
| 引用標準           | IEC 60384-2   |
| 氣候類別 / 阻燃等級    | 40 / 105 / 21   |
| 額定溫度           | 85°C  |
| 工作溫度範圍         | - 40°C ~ +105°C<br>+85°C~105°C decreasing factor 1.0% / for V <sub>R</sub> (dc) |
| 額定電壓 (DC-Type) | 450V  |
| 容量範圍           | 0.1 μF ~ 4.7 μF   |
| 電容容差           | J : ± 5% · K : ± 10% · M : ± 20%  |
| 耐 壓            | 施加 1.75 倍額定直流電壓測試 3 秒   |
| 損耗角正切          | 1.0% or less. At 1Khz, 20±5°C   |
| 絕緣電阻           | ≥ 9000M Ω at DC 100V (C ≤ 0.33 μF)<br>≥ 3000M Ω × μ F at DC 100V (C > 0.33 μ F) |

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● 產品編碼

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| FMPE   | 104    | K      | 0450   | D      | 100    | S      | R      |
| PART-1 | PART-2 | PART-3 | PART-4 | PART-5 | PART-6 | PART-7 | PART-8 |

PART-1 : 系列代號 FMPE

PART-2 : 額定電容值 (0.1  $\mu$ F~4.7  $\mu$ F / 104~475)

PART-3 : 電容容差 J :  $\pm 5\%$  · K :  $\pm 10\%$  · M :  $\pm 20\%$

PART-4 : 額定電壓 0450=450V

PART-5 : 電壓單位 D=VDC

PART-6 : 引腳腳距編號 100=10, 150=15  
225=22.5, 275=27.5

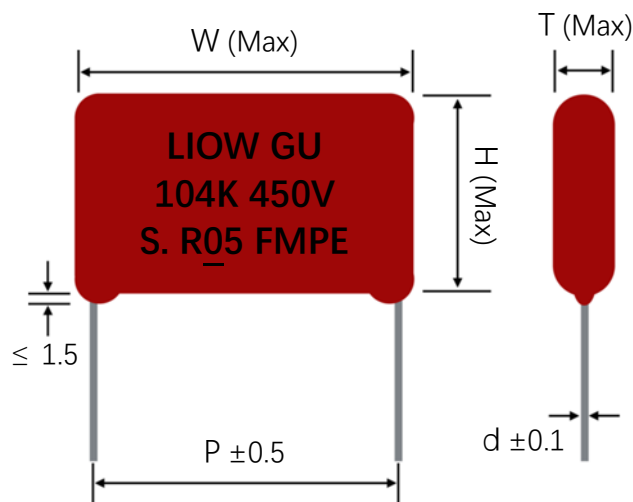
PART-7 : 引腳成型編號 

PART-8 : 內部特徵碼 R=環保代碼、H=無鹵代碼  
O=其他特殊要求、T= THB 雙 85 代碼

| 代碼 | 腳型  |
|----|-----|
| S  | 直腳  |
| C  | 短腳  |
| F  | K 腳 |
| T  | 編帶  |

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● 產品尺寸

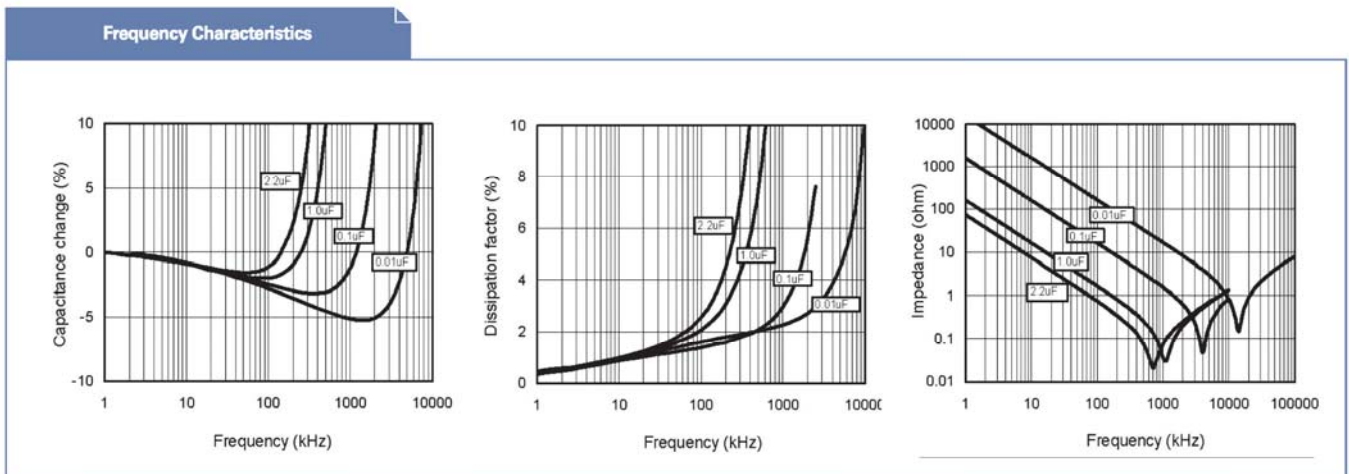
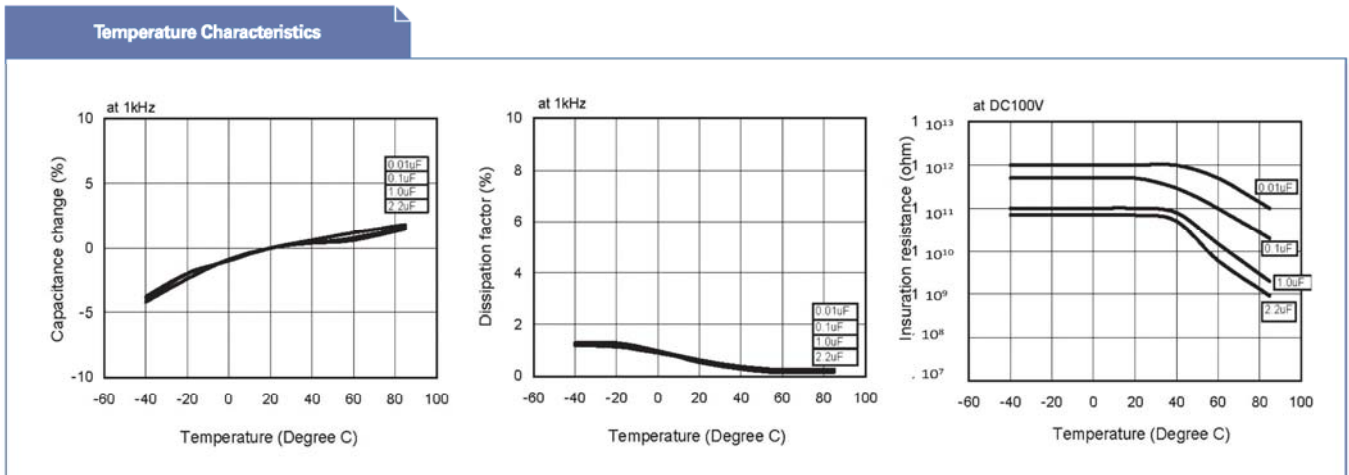


| 450 VDC           |                  |      |      |      |     |                    |
|-------------------|------------------|------|------|------|-----|--------------------|
| CAP<br>( $\mu$ F) | Dimensions (Max) |      |      | P    | d   | PART NUMBER        |
|                   | W                | H    | T    |      |     |                    |
| 0.1               | 13.0             | 10.5 | 6.0  | 10   | 0.6 | FMPE104K0450D100SR |
| 0.12              | 13.0             | 10.5 | 6.0  | 10   | 0.6 | FMPE124K0450D100SR |
| 0.15              | 13.0             | 11.0 | 6.0  | 10   | 0.6 | FMPE104K0450D100SR |
| 0.18              | 13.0             | 11.0 | 6.0  | 10   | 0.6 | FMPE184K0450D100SR |
| 0.22              | 13.0             | 12.0 | 6.0  | 10   | 0.6 | FMPE224K0450D100SR |
| 0.27              | 18.0             | 11.5 | 6.0  | 15   | 0.8 | FMPE274K0450D150SR |
| 0.33              | 18.0             | 11.5 | 6.0  | 15   | 0.8 | FMPE334K0450D150SR |
| 0.39              | 18.0             | 12.0 | 6.0  | 15   | 0.8 | FMPE394K0450D150SR |
| 0.47              | 18.0             | 14.0 | 6.5  | 15   | 0.8 | FMPE474K0450D150SR |
| 0.56              | 18.0             | 12.5 | 6.5  | 15   | 0.8 | FMPE564K0450D150SR |
| 0.68              | 18.0             | 14.0 | 6.5  | 15   | 0.8 | FMPE684K0450D150SR |
| 0.82              | 18.0             | 16.0 | 8.0  | 15   | 0.8 | FMPE824K0450D150SR |
| 1.0               | 18.0             | 16.5 | 9.0  | 15   | 0.8 | FMPE105K0450D150SR |
| 1.0               | 26.0             | 15.0 | 7.0  | 22.5 | 0.8 | FMPE105K0450D225SR |
| 1.2               | 26.0             | 15.5 | 7.5  | 22.5 | 0.8 | FMPE125K0450D225SR |
| 1.5               | 26.0             | 16.0 | 8.5  | 22.5 | 0.8 | FMPE155K0450D225SR |
| 1.8               | 26.0             | 17.0 | 9.0  | 22.5 | 0.8 | FMPE185K0450D225SR |
| 2.2               | 26.0             | 18.0 | 11.0 | 22.5 | 0.8 | FMPE225K0450D225SR |
| 2.5               | 26.0             | 18.5 | 10.5 | 22.5 | 0.8 | FMPE255K0450D225SR |
| 2.7               | 26.0             | 19.0 | 11.0 | 22.5 | 0.8 | FMPE275K0450D225SR |
| 3.3               | 26.0             | 22.0 | 11.0 | 22.5 | 0.8 | FMPE335K0450D225SR |
| 3.9               | 26.0             | 23.0 | 12.0 | 22.5 | 0.8 | FMPE395K0450D225SR |
| 4.7               | 26.0             | 24.0 | 13.0 | 22.5 | 0.8 | FMPE475K0450D225SR |

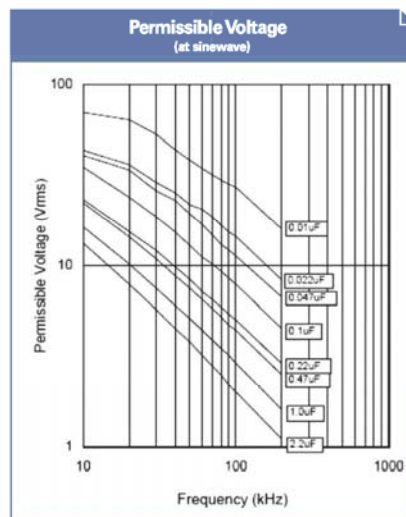
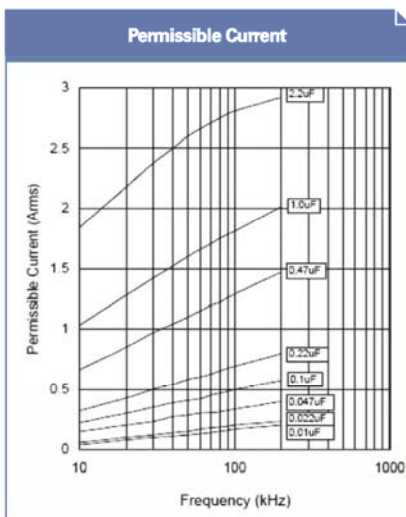
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■ Electrical Characteristics (Typical Data)

450Vdc Series



■ Applicable Specifications



**Pulse Handling Capability(dv/dt)**  
(Max 1000cycles)

| Rating Voltage | Capacitance Value(μF) | Code | dV/dt(V/μs) | Current(o-p) (A) |
|----------------|-----------------------|------|-------------|------------------|
| 450VDC         | 0.1                   | 104  | 78          | 7.8              |
|                | 0.15                  | 154  |             | 5.55             |
|                | 0.22                  | 224  |             | 8.14             |
|                | 0.33                  | 334  | 37          | 12.21            |
|                | 0.47                  | 474  |             | 17.39            |
|                | 0.68                  | 684  | 22          | 14.96            |
|                | 1                     | 105  |             | 22               |
|                | 1.2                   | 125  | 18          | 27               |
|                | 2.2                   | 225  |             | 39.6             |