

Metallized Polypropylene Film Capacitor MPB

● 特點

- 高頻下低損耗
- 高穩定容量&損耗
- 良好的自癒性
- 高絕緣阻抗
- 符合 RoHs

● 結構

- 電介質：金屬化聚丙烯薄膜
- 捲繞：無感式
- 導線：鍍錫銅包鋼線
- 外層：阻燃塑料殼，環氧樹脂填充

● 應用

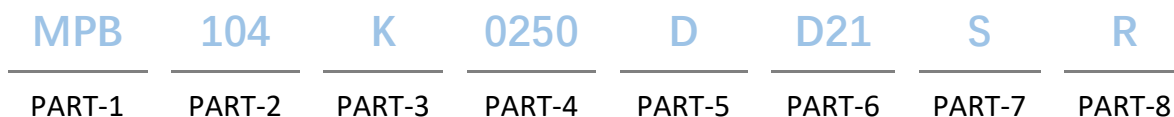
- 典型應用包括開關模式下的脈衝操作
- 電源 ( SMPS )、電視機、電腦、顯示器、電子鎮流器等要求穩定運行的高頻應用。

● 電器特性

|                |  |
|----------------|--|
| 引用標準           | IEC 60384-16 (For-DC Type) IEC 63084-17 (For-AC Type)                              |
| 氣候類別 / 阻燃等級    | 40 / 105 / 21  |
| 額定溫度           | 105°C<br>+85°C~105°C decreasing factor 1.0% / for V <sub>R</sub> (dc)              |
| 工作溫度範圍         | - 40°C ~ +105°C  |
| 額定電壓 (DC-Type) | 160V , 250V , 400V , 630V  |
| 容量範圍           | 0.01 μ F ~ 10 μ F  |
| 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          | 0.1% or less. At 1Khz, 20±5°C  |
| 絕緣電阻           | ≥ 30000M Ω at DC 100V (C ≤ 0.33 μ F)<br>≥ 10000M Ω × μ F at DC 100V (C > 0.33 μ F) |

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● 產品編碼



PART-1 : 系列代號 MPB

PART-2 : 額定電容值 (0.001  $\mu$ F~10.0  $\mu$ F / 102~106)

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

PART-4 : 額定電壓 0160=106V, 0250=250V,  
0400=400V, 0630=630V

PART-5 : 電壓單位 A=VAC D=VDC

PART-6 : 引腳腳距編號 075=7.5,100=10,150=15  
225=22.5,275=27.5

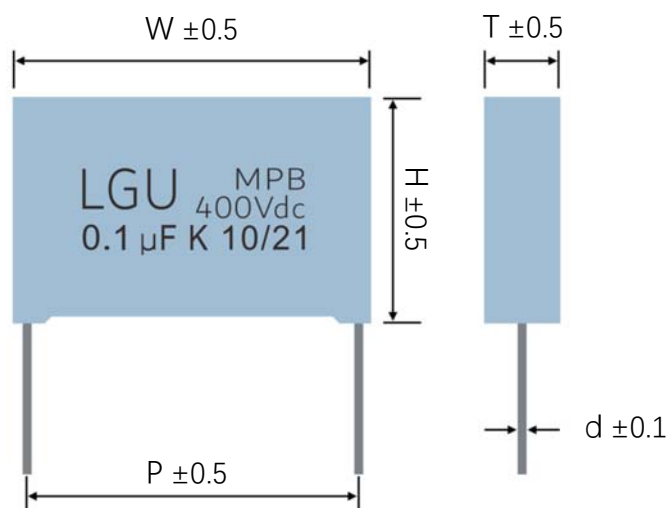
PART-7 : 引腳成型編號

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  |

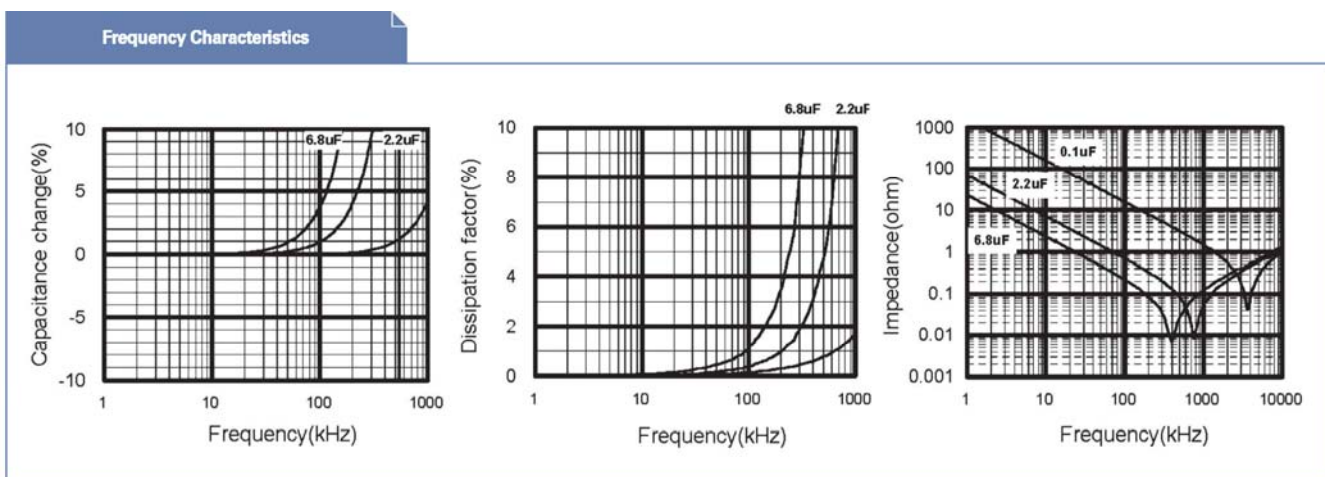
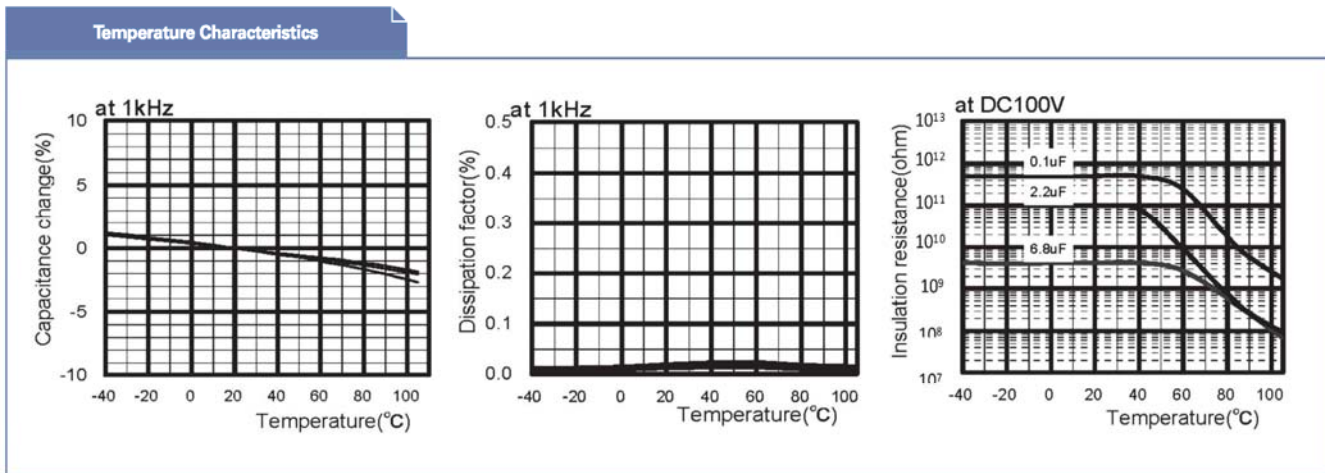
● 產品尺寸 產品需求尺寸,請與我們聯繫



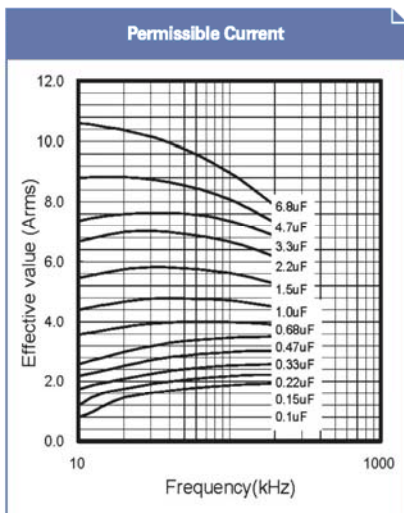
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250Vdc Series

Electrical Characteristics (Typical Data)



Applicable Specifications



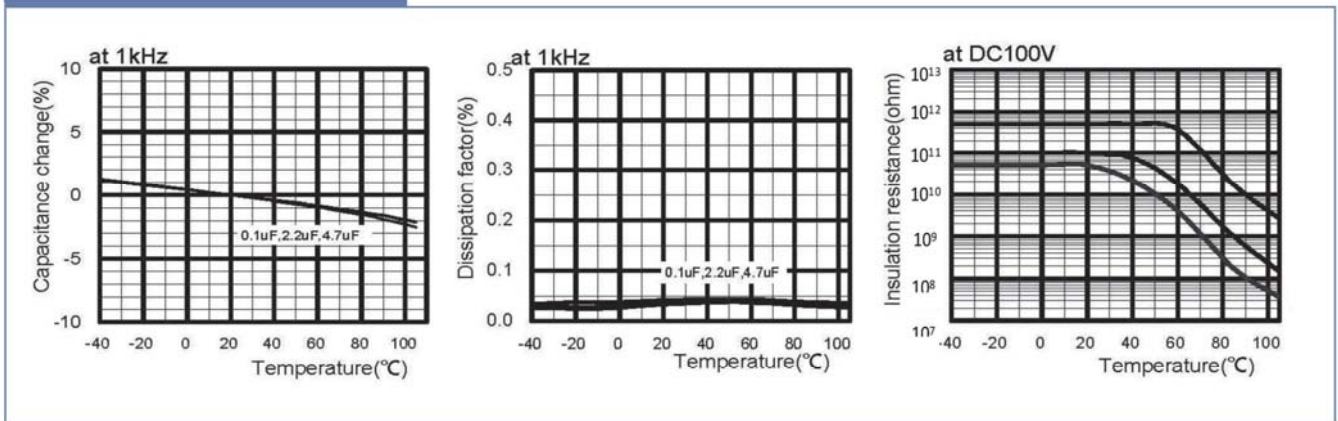
**Pulse Handling Capability(dv/dt)**  
(Max 1000cycles)

| Rating Voltage | Capacitance Value(μf) | Code | dV/dt(V/μs) | Current(o-p) (A) |       |
|----------------|-----------------------|------|-------------|------------------|-------|
| DC 250V        | 0.10                  | 104  | 135         | 13.5             |       |
|                | 0.15                  | 154  |             | 20.2             |       |
|                | 0.22                  | 224  |             | 29.7             |       |
|                | 0.33                  | 334  |             | 44.5             |       |
|                | 0.47                  | 474  |             | 63.4             |       |
|                | 0.68                  | 684  |             | 55.7             |       |
|                | 1.00                  | 105  | 82          | 82.0             |       |
|                | 1.50                  | 155  |             | 123.0            |       |
|                | 2.20                  | 225  |             | 180.4            |       |
|                | 3.30                  | 335  |             | 188.1            |       |
|                | 6.80                  | 685  |             | 57               | 387.6 |
|                |                       |      |             |                  |       |

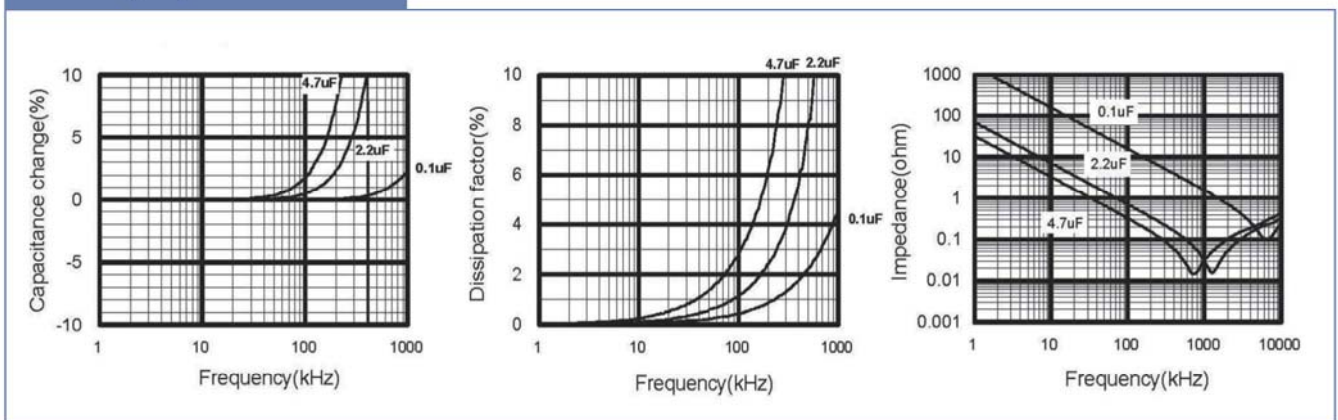
## Electrical Characteristics (Typical Data)

## 400Vdc Series

Temperature Characteristics

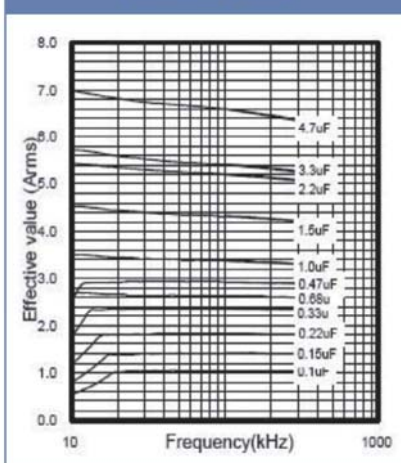


Frequency Characteristics



## Applicable Specifications

Permissible Current



Pulse Handling Capability(dv/dt)

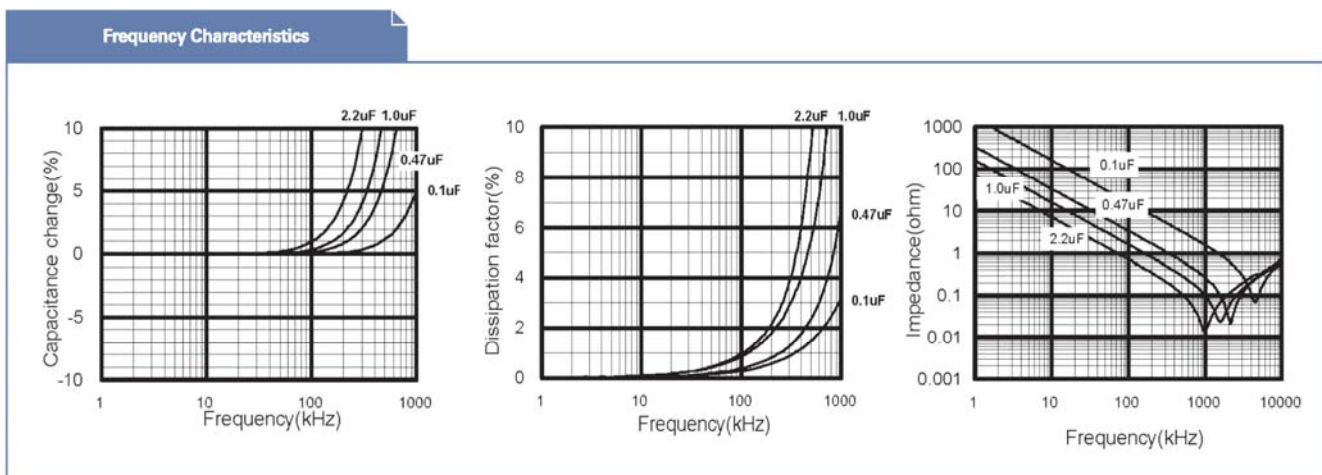
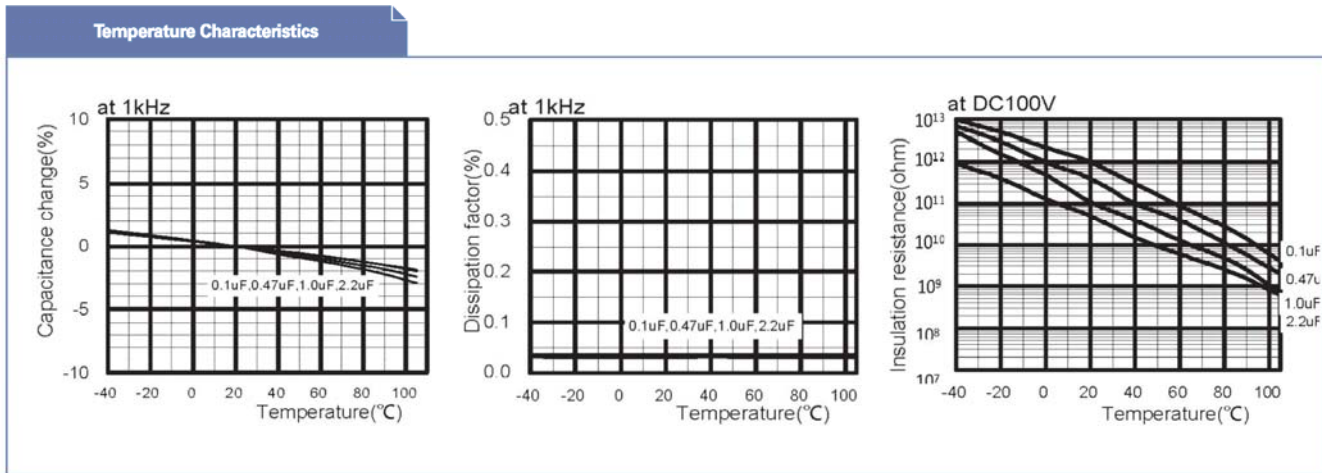
(Max 1000cycles)

| Rating Voltage | Capacitance Value(μF) | Code | dV/dt(V/μs) | Current(o-p) (A) |      |
|----------------|-----------------------|------|-------------|------------------|------|
| 400Vdc Series  | 0.10                  | 104  | 41.6        | 4.2              |      |
|                | 0.15                  | 154  |             | 6.2              |      |
|                | 0.22                  | 224  |             | 9.2              |      |
|                | 0.33                  | 334  |             | 13.7             |      |
|                | 0.47                  | 474  |             | 19.6             |      |
|                | 0.68                  | 684  |             | 16.5             |      |
|                | 24.3                  | 1.00 | 105         | 24.3             |      |
|                |                       | 1.50 | 155         | 36.4             |      |
|                |                       | 2.20 | 225         | 53.4             |      |
|                |                       | 14.3 | 3.30        | 335              | 47.2 |
|                |                       |      | 4.70        | 475              | 67.3 |

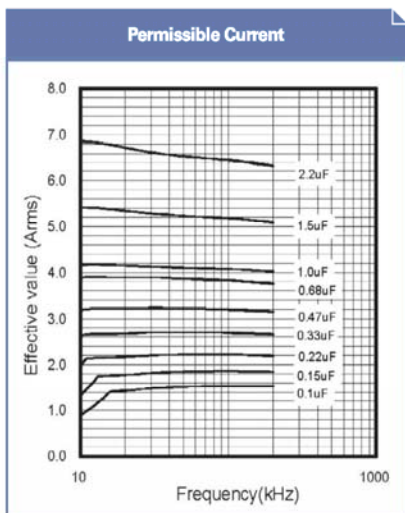
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630Vdc Series

■ Electrical Characteristics (Typical Data)



■ Applicable Specifications



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

| Rating Voltage | Capacitance Value(μF) | Code | dV/dt(V/μs) | Current(o-p) (A) |      |
|----------------|-----------------------|------|-------------|------------------|------|
| DC 630V        | 0.10                  | 104  | 155         | 15.5             |      |
|                | 0.12                  | 124  |             | 18.6             |      |
|                | 0.15                  | 154  |             | 23.3             |      |
|                | 0.18                  | 184  |             | 27.9             |      |
|                | 0.22                  | 224  |             | 34.1             |      |
|                | 0.27                  | 274  |             | 41.9             |      |
|                | 0.33                  | 334  |             | 51.2             |      |
|                | 0.39                  | 394  |             | 60.5             |      |
|                | 0.47                  | 474  |             | 72.9             |      |
|                | 0.56                  | 564  |             | 86.8             |      |
|                | 0.68                  | 684  |             | 105.4            |      |
|                | 0.82                  | 824  |             | 65               | 53.3 |
|                | 1.00                  | 105  |             |                  | 65.0 |
|                | 1.20                  | 125  |             |                  | 78.0 |
| 1.50           | 155                   | 97.5 |             |                  |      |
| 1.80           | 185                   | 117  |             |                  |      |
|                | 2.20                  | 225  | 143         |                  |      |