

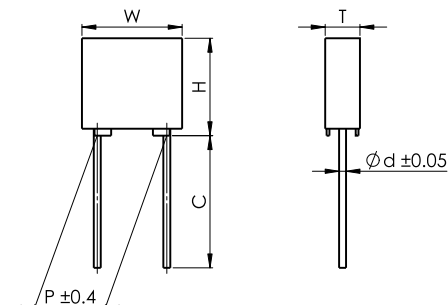


C24  
CL23B series

## 塑料外壳金属化聚酯膜叠片式电容器(P=5.0)

### Box-type metallized polyester film capacitor(Stacked version)

#### ■ 外形图 Outline Drawing



#### ■ 特点

- 金属化聚酯膜, 叠片式结构
- 塑料外壳 (UL94 V-0), 环氧填充
- 抗脉冲能力强

#### ■ 主要用途:

- 旁路, 隔直, 耦合, 退耦
- 脉冲, 逻辑, 定时, 紧凑型节能灯
- LCD监视器整流, 汽车直流马达抑制干扰

#### ■ Features

- Metallized polyester film, stacked construction
- Plastic case (UL94 V-0), epoxy resin sealing
- High dv/dt ability

#### ■ Typical Applications:

- By-passing, blocking, coupling, decoupling
- Pulse logic, timing, compact fluorescent lamps
- Inverter for LCD monitors, automotive DC motor suppression

#### ■ 技术要求 Specifications

|                                                                                                                                                                                                                                                                                                                                                                                |                                                                                        |                                                                                                                                                    |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 引用标准 Reference Standard                                                                                                                                                                                                                                                                                                                                                        | GB/T 7332(IEC 60384-2)                                                                 |                                                                                                                                                    |                        |
| 气候类别 Climatic Category                                                                                                                                                                                                                                                                                                                                                         | 55/125/56                                                                              |                                                                                                                                                    |                        |
| 额定温度 Rated Temperature                                                                                                                                                                                                                                                                                                                                                         | 85℃                                                                                    |                                                                                                                                                    |                        |
| 工作温度 Operating Temperature Range                                                                                                                                                                                                                                                                                                                                               | -55℃ ~125℃<br>(+85℃ to +125℃: decreasing factor 1.25% per °C for U <sub>R</sub> (dc) ) |                                                                                                                                                    |                        |
| 额定电压 Rated Voltage                                                                                                                                                                                                                                                                                                                                                             | 50/63V, 100V, 250V, 400V, 500V, 630V, 700V                                             |                                                                                                                                                    |                        |
| 电容量范围 Capacitance Range                                                                                                                                                                                                                                                                                                                                                        | 0.0010μF ~ 2.2μF                                                                       |                                                                                                                                                    |                        |
| 电容量偏差 Capacitance Tolerance                                                                                                                                                                                                                                                                                                                                                    | ± 5%(J), ± 10%(K), ± 20%(M)                                                            |                                                                                                                                                    |                        |
| 耐电压 Voltage Proof                                                                                                                                                                                                                                                                                                                                                              | 1.4U <sub>R</sub> ( 5s )                                                               |                                                                                                                                                    |                        |
| 损耗角正切 Dissipation Factor                                                                                                                                                                                                                                                                                                                                                       | Frequency                                                                              | C <sub>N</sub> ≤ 0.1μF                                                                                                                             | C <sub>N</sub> > 0.1μF |
|                                                                                                                                                                                                                                                                                                                                                                                | 1kHz                                                                                   | ≤ 1.0%                                                                                                                                             | ≤ 1.0%                 |
|                                                                                                                                                                                                                                                                                                                                                                                | 10kHz                                                                                  | ≤ 1.5%                                                                                                                                             | ≤ 1.5%                 |
|                                                                                                                                                                                                                                                                                                                                                                                | 100kHz                                                                                 | ≤ 3.0%                                                                                                                                             | —                      |
| 绝缘电阻 Insulation Resistance                                                                                                                                                                                                                                                                                                                                                     | U <sub>R</sub> > 100V                                                                  | R ≥ 30 000MΩ, C <sub>N</sub> ≤ 0.33μF<br>RC <sub>N</sub> ≥ 10 000s, C <sub>N</sub> > 0.33μF                                                        |                        |
|                                                                                                                                                                                                                                                                                                                                                                                | U <sub>R</sub> ≤ 100V                                                                  | R ≥ 15 000MΩ, C <sub>N</sub> ≤ 0.33μF<br>RC <sub>N</sub> ≥ 5 000s, 0.33μF < C <sub>N</sub> ≤ 1μF<br>RC <sub>N</sub> ≥ 1 000s, C <sub>N</sub> > 1μF |                        |
| 最大脉冲爬升速率 Maximum Pulse Rise Time(dv/dt):<br>若实际工作电压 U 比额定电压 U <sub>R</sub> 低, 电容器可工作在更高的 dv/dt 场合。这样 dv/dt 允许值应为右表值乘以 U <sub>R</sub> /U。<br>If the working voltage(U) is lower than the rated voltage(U <sub>R</sub> ),the capacitor can be worked at a higher dv/dt. In this case, the maximum allowed dv/dt is obtain by multiplying the right value with U <sub>R</sub> /U. | U <sub>R</sub> (V)                                                                     | dv/dt (V/μs)                                                                                                                                       |                        |
|                                                                                                                                                                                                                                                                                                                                                                                |                                                                                        | pattern I                                                                                                                                          | pattern II             |
|                                                                                                                                                                                                                                                                                                                                                                                | 50/63                                                                                  | 250                                                                                                                                                | 75                     |
|                                                                                                                                                                                                                                                                                                                                                                                | 100                                                                                    | 300                                                                                                                                                | 85                     |
|                                                                                                                                                                                                                                                                                                                                                                                | 250                                                                                    | 400                                                                                                                                                | 100                    |
|                                                                                                                                                                                                                                                                                                                                                                                | 400                                                                                    | 600                                                                                                                                                | 150                    |
|                                                                                                                                                                                                                                                                                                                                                                                | 500                                                                                    | 700                                                                                                                                                | 200                    |
|                                                                                                                                                                                                                                                                                                                                                                                | 630                                                                                    | 800                                                                                                                                                |                        |
|                                                                                                                                                                                                                                                                                                                                                                                | 700                                                                                    | —                                                                                                                                                  | 250                    |

## 产品编码说明 Part number system

### ■ 18位产品代码如下：

The 18 digits part number is formed as follow:

#### C24 Pattern I (High performance)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| C | 2 | 4 |   |   |   |   |   |   | 2  | 0  |    |    |    |    |    |    |    |

#### C24 Pattern II (Reduced sizes)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| C | 2 | 4 |   |   |   |   |   |   | 2  | S  |    |    |    |    |    |    |    |

|         |                                       |                |                                                 |
|---------|---------------------------------------|----------------|-------------------------------------------------|
| 第1~3位   | 型号代码                                  | Digit 1 to 3   | Series code                                     |
|         | C24= CL23B                            |                | C24= CL23B                                      |
| 第4~5位   | 直流额定电压                                | Digit 4 to 5   | DC rated voltage                                |
|         | 1H=50V 1J=63V 2A=100V 2E=250V         |                | 1H=50V 1J=63V 2A=100V 2E=250V                   |
|         | 2G=400V 2H=500V 2J=630V 1V=700V       |                | 2G=400V 2H=500V 2J=630V 1V=700V                 |
| 第6~8位   | 标称容量                                  | Digit 6 to 8   | Rated capacitance value                         |
|         | 举例：103=10 × 10 <sup>3</sup> pF=0.01μF |                | For example: 103=10 × 10 <sup>3</sup> pF=0.01μF |
| 第9位     | 容量偏差                                  | Digit 9        | Capacitance tolerance                           |
|         | J= ± 5%,K= ± 10%,M= ± 20%             |                | J= ± 5%,K= ± 10%,M= ± 20%                       |
| 第10位    | 引线脚距P                                 | Digit 10       | Pitch                                           |
|         | 2=5.0mm                               |                | 2=5.0mm                                         |
| 第11位    | 内部特征码                                 | Digit 11       | Internal use                                    |
|         | S=II 型                                |                | S=pattern II                                    |
| 第12~15位 | 引线加工和包装代码                             | Digit 12 to 15 | Lead form and packaging code                    |
| 第16~18位 | 内部特征码                                 | Digit 16 to 18 | Internal use                                    |

### ■ Table 1 引线加工和包装代码 lead form and packaging code

| 第 12 位 Digit 12 |                                                   | 第 13 位 Digit 13 |                                                | 第 14 位 Digit 14 |                  | 第 15 位 Digit 15                                                      |                                                                                                                                     |
|-----------------|---------------------------------------------------|-----------------|------------------------------------------------|-----------------|------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 代码 Code         | 说明 explanation                                    | 代码 Code         | 说明 explanation                                 | 代码 Code         | 说明 explanation   | 代码 Code                                                              | 说明 explanation                                                                                                                      |
| A               | 弹带包装<br>ammo-pack                                 | 2               | F=5.0mm                                        | 0               | 表示直脚<br>straight | 1                                                                    | 产品在连续的两个载带孔之间<br>each cap.among two consecutive holes<br>P3=12.7mm, H=18.5mm(For pitch=5.0mm)<br>(Detail parameter refer to pag 17) |
| C               | 直脚<br>straight lead<br>“C” in the<br>figure above | 代码 Code         | 说明 explanation                                 | 0               |                  | 引线长度偏差 ±0.5mm 或标准长度<br>Length tolerance ±0.5mm<br>Or standard length |                                                                                                                                     |
|                 |                                                   | 00              | 标准的引线长度 (18mm ~ 22 mm)<br>standard lead length |                 |                  |                                                                      |                                                                                                                                     |
|                 |                                                   | 45              | 引线长度 4.5mm<br>lead length 4.5mm                |                 |                  |                                                                      |                                                                                                                                     |



**C24**  
CL23B series

## ■ 外形尺寸 Dimensions ( mm )

|                                      |       |       |
|--------------------------------------|-------|-------|
| 电容器厚度 ( Capacitor Thickness ) T      | ≤ 3.5 | >3.5  |
| 外形尺寸偏差 Dimension Tolerance (W, H, T) | ± 0.2 | ± 0.4 |

### Pattern II ( Reduced sizes )

| 50Vdc (30Vac)/63Vdc (40Vac) <sup>#</sup> |     |      |     |     |     |                   | 100Vdc(63Vac)          |     |      |     |     |     |                   | 250Vdc(140Vac)         |     |      |     |     |     |                   |
|------------------------------------------|-----|------|-----|-----|-----|-------------------|------------------------|-----|------|-----|-----|-----|-------------------|------------------------|-----|------|-----|-----|-----|-------------------|
| C <sub>N</sub><br>(μF)                   | W   | H    | T   | P   | d   | Part number       | C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number       | C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number       |
| 0.15                                     | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J154-2S****++ | 0.10                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A104-2S****++ | 0.022                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E223-2S****++ |
| 0.18                                     | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J184-2S****++ | 0.12                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A124-2S****++ | 0.027                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E273-2S****++ |
| 0.22                                     | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J224-2S****++ | 0.15                   | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242A154-2S****++ | 0.033                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E333-2S****++ |
| 0.27                                     | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J274-2S****++ | 0.18                   | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242A184-2S****++ | 0.039                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E393-2S****++ |
| 0.33                                     | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J334-2S****++ | 0.22                   | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242A224-2S****++ | 0.047                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E473-2S****++ |
| 0.39                                     | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J394-2S****++ | 0.27                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A274-2S****++ | 0.056                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E563-2S****++ |
| 0.47                                     | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J474-2S****++ | 0.33                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A334-2S****++ | 0.068                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E683-2S****++ |
| 0.56                                     | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J564-2S****++ | 0.39                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A394-2S****++ | 0.082                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E823-2S****++ |
| 0.68                                     | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J684-2S****++ | 0.47                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242A474-2S****++ | 0.10                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E104-2S****++ |
| 0.82                                     | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J824-2S****++ | 0.56                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242A564-2S****++ | 0.12                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E124-2S****++ |
| 1.0                                      | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C241J105-2S****++ | 0.68                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A684-2S****++ | 0.15                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242E154-2S****++ |
| 1.5                                      | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J155-2S****++ | 0.82                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A824-2S****++ | 0.18                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242E184-2S****++ |
| 2.2                                      | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J225-2S****++ | 1.0                    | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A105-2S****++ | 0.22                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242E224-2S****++ |

| 400Vdc (160Vac)        |     |      |     |     |     |                   | 500/630Vdc (220Vac) <sup>#</sup> |     |      |     |     |     |                   | 700Vdc (250Vac)        |     |      |     |     |     |                   |
|------------------------|-----|------|-----|-----|-----|-------------------|----------------------------------|-----|------|-----|-----|-----|-------------------|------------------------|-----|------|-----|-----|-----|-------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number       | C <sub>N</sub><br>(μF)           | W   | H    | T   | P   | d   | Part number       | C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number       |
| 0.0056                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G562-2S****++ | 0.0018                           | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J182-2S****++ | 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V102-2S****++ |
| 0.0068                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G682-2S****++ | 0.0022                           | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J222-2S****++ | 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V122-2S****++ |
| 0.0082                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G822-2S****++ | 0.0027                           | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J272-2S****++ | 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V152-2S****++ |
| 0.010                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G103-2S****++ | 0.0033                           | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J332-2S****++ | 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V182-2S****++ |
| 0.012                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G123-2S****++ | 0.0039                           | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J392-2S****++ | 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V222-2S****++ |
| 0.015                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G153-2S****++ | 0.0047                           | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J472-2S****++ | 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241V272-2S****++ |
| 0.018                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G183-2S****++ | 0.0056                           | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J562-2S****++ | 0.0033                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V332-2S****++ |
| 0.022                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G223-2S****++ | 0.0068                           | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J682-2S****++ | 0.0039                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V392-2S****++ |
| 0.027                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G273-2S****++ | 0.0082                           | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J822-2S****++ | 0.0047                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V472-2S****++ |
| 0.033                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G333-2S****++ | 0.010                            | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J103-2S****++ | 0.0056                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V562-2S****++ |
| 0.039                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G393-2S****++ | 0.012                            | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J123-2S****++ | 0.0068                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241V682-2S****++ |
| 0.047                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G473-2S****++ | 0.015                            | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J153-2S****++ | 0.0082                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241V822-2S****++ |
| 0.051                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242G513-2S****++ | 0.018                            | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J183-2S****++ | 0.010                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241V103-2S****++ |
| 0.056                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G563-2S****++ | 0.022                            | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242J223-2S****++ | 0.012                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241V123-2S****++ |
| 0.068                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G683-2S****++ | 0.027                            | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J273-2S****++ | 0.015                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C241V153-2S****++ |
| 0.082                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G823-2S****++ | 0.033                            | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J333-2S****++ | 0.018                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241V183-2S****++ |
| 0.10                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G104-2S****++ |                                  |     |      |     |     |     |                   | 0.022                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241V223-2S****++ |

- 备注: 1. “-”表示容量偏差。 “-”=capacitance tolerance code, M=±20%,K=±10%,J=±5%  
2. “\*\*\*\*”表示引线加工和包装代码(见table 1)。“\*\*\*\*”=lead form and packing code (refer to table 1)  
3. “#”当额定电压为50Vdc,500Vdc时,第4~5位是1H和2H。  
“#” when the rated voltage is 50Vdc,500Vdc, the digit 4~5 respectively is 1H,2H.

Pattern I (High performance)

| 50Vdc (30Vac)/63Vdc (40Vac) <sup>#</sup> |     |      |     |     |     |                    | 100Vdc (63Vac)         |     |      |     |     |     |                    | 250Vdc (160Vac)        |     |      |     |     |     |                    |
|------------------------------------------|-----|------|-----|-----|-----|--------------------|------------------------|-----|------|-----|-----|-----|--------------------|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF)                   | W   | H    | T   | P   | d   | Part number        | C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        | C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0010                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J102-20****+++ | 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A102-20****+++ | 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E102-20****+++ |
| 0.0012                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J122-20****+++ | 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A122-20****+++ | 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E122-20****+++ |
| 0.0015                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J152-20****+++ | 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A152-20****+++ | 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E152-20****+++ |
| 0.0018                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J182-20****+++ | 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A182-20****+++ | 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E182-20****+++ |
| 0.0022                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J222-20****+++ | 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A222-20****+++ | 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E222-20****+++ |
| 0.0027                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J272-20****+++ | 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A272-20****+++ | 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E272-20****+++ |
| 0.0033                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J332-20****+++ | 0.0033                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A332-20****+++ | 0.0033                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E332-20****+++ |
| 0.0039                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J392-20****+++ | 0.0039                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A392-20****+++ | 0.0039                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E392-20****+++ |
| 0.0047                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J472-20****+++ | 0.0047                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A472-20****+++ | 0.0047                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E472-20****+++ |
| 0.0056                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J562-20****+++ | 0.0056                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A562-20****+++ | 0.0056                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E562-20****+++ |
| 0.0068                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J682-20****+++ | 0.0068                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A682-20****+++ | 0.0068                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E682-20****+++ |
| 0.0082                                   | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J822-20****+++ | 0.0082                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A822-20****+++ | 0.0082                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E822-20****+++ |
| 0.010                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J103-20****+++ | 0.010                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A103-20****+++ | 0.010                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E103-20****+++ |
| 0.012                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J123-20****+++ | 0.012                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A123-20****+++ | 0.012                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E123-20****+++ |
| 0.015                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J153-20****+++ | 0.015                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A153-20****+++ | 0.015                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E153-20****+++ |
| 0.018                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J183-20****+++ | 0.018                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A183-20****+++ | 0.018                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242E183-20****+++ |
| 0.022                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J223-20****+++ | 0.022                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A223-20****+++ | 0.022                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E223-20****+++ |
| 0.027                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J273-20****+++ | 0.027                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A273-20****+++ | 0.027                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E273-20****+++ |
| 0.033                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J333-20****+++ | 0.033                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A333-20****+++ | 0.033                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E333-20****+++ |
| 0.039                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J393-20****+++ | 0.039                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A393-20****+++ | 0.039                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242E393-20****+++ |
| 0.047                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J473-20****+++ | 0.047                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A473-20****+++ | 0.047                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E473-20****+++ |
| 0.056                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J563-20****+++ | 0.056                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A563-20****+++ | 0.056                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E563-20****+++ |
| 0.068                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J683-20****+++ | 0.068                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A683-20****+++ | 0.068                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242E683-20****+++ |
| 0.082                                    | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J823-20****+++ | 0.082                  | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242A823-20****+++ | 0.082                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242E823-20****+++ |
| 0.10                                     | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J104-20****+++ | 0.10                   | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242A104-20****+++ | 0.10                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242E104-20****+++ |
| 0.12                                     | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C241J124-20****+++ | 0.12                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A124-20****+++ | 0.12                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242E124-20****+++ |
| 0.15                                     | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J154-20****+++ | 0.15                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A154-20****+++ | 0.15                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242E154-20****+++ |
| 0.18                                     | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J184-20****+++ | 0.18                   | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242A184-20****+++ |                        |     |      |     |     |     |                    |
| 0.22                                     | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C241J224-20****+++ | 0.22                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242A224-20****+++ |                        |     |      |     |     |     |                    |
| 0.27                                     | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J274-20****+++ | 0.27                   | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242A274-20****+++ |                        |     |      |     |     |     |                    |
| 0.33                                     | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J334-20****+++ | 0.33                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A334-20****+++ |                        |     |      |     |     |     |                    |
| 0.39                                     | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C241J394-20****+++ | 0.39                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A394-20****+++ |                        |     |      |     |     |     |                    |
| 0.47                                     | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C241J474-20****+++ | 0.47                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A474-20****+++ |                        |     |      |     |     |     |                    |
| 0.56                                     | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C241J564-20****+++ | 0.56                   | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242A564-20****+++ |                        |     |      |     |     |     |                    |
| 0.68                                     | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J684-20****+++ |                        |     |      |     |     |     |                    |                        |     |      |     |     |     |                    |
| 0.82                                     | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J824-20****+++ |                        |     |      |     |     |     |                    |                        |     |      |     |     |     |                    |
| 1.0                                      | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C241J105-20****+++ |                        |     |      |     |     |     |                    |                        |     |      |     |     |     |                    |

- 备注: 1. “-”表示容量偏差。 “-”=capacitance tolerance code, M= ±20%, K= ±10%, J= ±5%  
 2. “\*\*\*\*”表示引线加工和包装代码(见table 1)。“\*\*\*\*”=lead form and packing code (refer to table 1)  
 3. “#”当额定电压为50Vdc时,第4~5位是1H。“#”when the rated voltage is 50Vdc,the digit 4~5 is 1H.



**C24**  
CL23B series

# Pattern I (High performance)

| 400Vdc (200Vac)        |     |      |     |     |     |                    | 500Vdc (220Vac)        |     |      |     |     |     |                    | 630Vdc (220Vac)        |     |      |     |     |     |                    |
|------------------------|-----|------|-----|-----|-----|--------------------|------------------------|-----|------|-----|-----|-----|--------------------|------------------------|-----|------|-----|-----|-----|--------------------|
| C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        | C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        | C <sub>N</sub><br>(μF) | W   | H    | T   | P   | d   | Part number        |
| 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G102-20****+++ | 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H102-20****+++ | 0.0010                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J102-20****+++ |
| 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G122-20****+++ | 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H122-20****+++ | 0.0012                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J122-20****+++ |
| 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G152-20****+++ | 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H152-20****+++ | 0.0015                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242J152-20****+++ |
| 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G182-20****+++ | 0.0018                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H182-20****+++ | 0.0018                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J182-20****+++ |
| 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G222-20****+++ | 0.0022                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H222-20****+++ | 0.0022                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J222-20****+++ |
| 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G272-20****+++ | 0.0027                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242H272-20****+++ | 0.0027                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J272-20****+++ |
| 0.0033                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G332-20****+++ | 0.0033                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242H332-20****+++ | 0.0033                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J332-20****+++ |
| 0.0039                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G392-20****+++ | 0.0039                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242H392-20****+++ | 0.0039                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242J392-20****+++ |
| 0.0047                 | 7.2 | 6.5  | 2.5 | 5.0 | 0.5 | C242G472-20****+++ | 0.0047                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242H472-20****+++ | 0.0047                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J472-20****+++ |
| 0.0056                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G562-20****+++ | 0.0056                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242H562-20****+++ | 0.0056                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J562-20****+++ |
| 0.0068                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G682-20****+++ | 0.0068                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242H682-20****+++ | 0.0068                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J682-20****+++ |
| 0.0082                 | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G822-20****+++ | 0.0082                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242H822-20****+++ | 0.0082                 | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242J822-20****+++ |
| 0.010                  | 7.2 | 7.5  | 3.5 | 5.0 | 0.5 | C242G103-20****+++ | 0.010                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242H103-20****+++ | 0.010                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242J103-20****+++ |
| 0.012                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G123-20****+++ | 0.012                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242H123-20****+++ | 0.012                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J123-20****+++ |
| 0.015                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G153-20****+++ | 0.015                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242H153-20****+++ | 0.015                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J153-20****+++ |
| 0.018                  | 7.2 | 9.5  | 4.5 | 5.0 | 0.6 | C242G183-20****+++ | 0.018                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242H183-20****+++ | 0.018                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242J183-20****+++ |
| 0.022                  | 7.2 | 10.0 | 5.0 | 5.0 | 0.6 | C242G223-20****+++ | 0.022                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242H223-20****+++ |                        |     |      |     |     |     |                    |
| 0.027                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G273-20****+++ | 0.027                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242H273-20****+++ |                        |     |      |     |     |     |                    |
| 0.033                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G333-20****+++ |                        |     |      |     |     |     |                    |                        |     |      |     |     |     |                    |
| 0.039                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G393-20****+++ |                        |     |      |     |     |     |                    |                        |     |      |     |     |     |                    |
| 0.047                  | 7.2 | 11.0 | 6.0 | 5.0 | 0.6 | C242G473-20****+++ |                        |     |      |     |     |     |                    |                        |     |      |     |     |     |                    |

- 备注: 1. “-”表示容量偏差。 “-”=capacitance tolerance code, M=±20%, K=±10%, J=±5%  
2. “\*\*\*\*”表示引线加工和包装代码(见table 1)。“\*\*\*\*”=lead form and packing code (refer to table 1)

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