

C61

AC / DC Filter and High Ripple Current Capacitor

交直流滤波和高纹波电流电容器

C61



产品特点.Characteristics

- 迈拉胶带封装, 环氧树脂灌注;
  - 镀锡铜螺母、铜片引出;
  - 耐压高, 损耗(tgδ)小, 温升低;
  - 自感(ESL)小, 等效串联电阻(ESR)小;
  - 高纹波电流、高dv/dt 承受能力、高稳定、具有自愈性。
- PET tape wrapping, epoxy resin perfusion
  - Tin plated copper nut or copper sheet leads
  - High voltage, low dissipation factor(tgδ), low temperature rise
  - Low ESL, low ESR, low temperature rise
  - High pulse current , high dv/dt, high stability, self healing

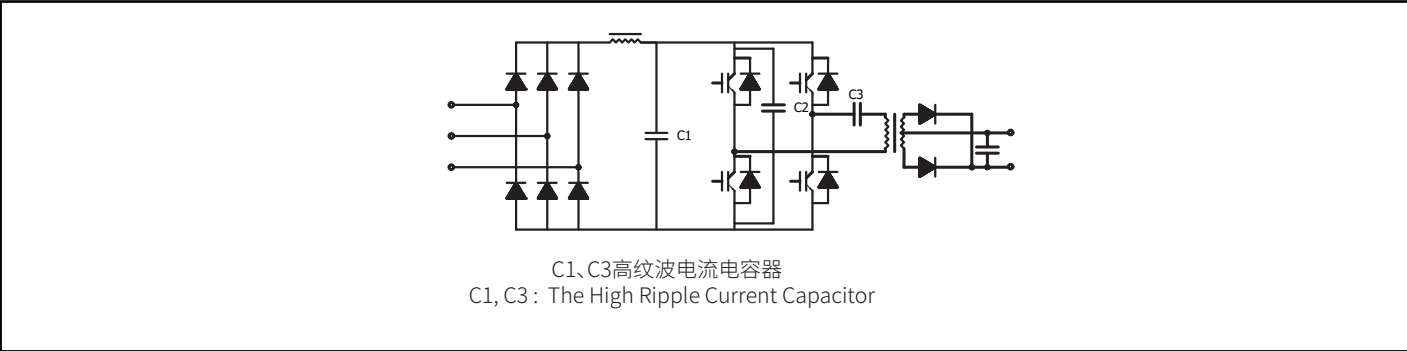
产品应用.Application

- 广泛应用于UPS、逆变电源、焊机电源等设备中输入输出滤波
- 高纹波电流直流滤波应用
- Widely used in Input and output filtering in UPS, SMPSs, inverters, welding machine power supplies
- And alos the Application of DC filter with High ripple current

性能参数.Technical Data

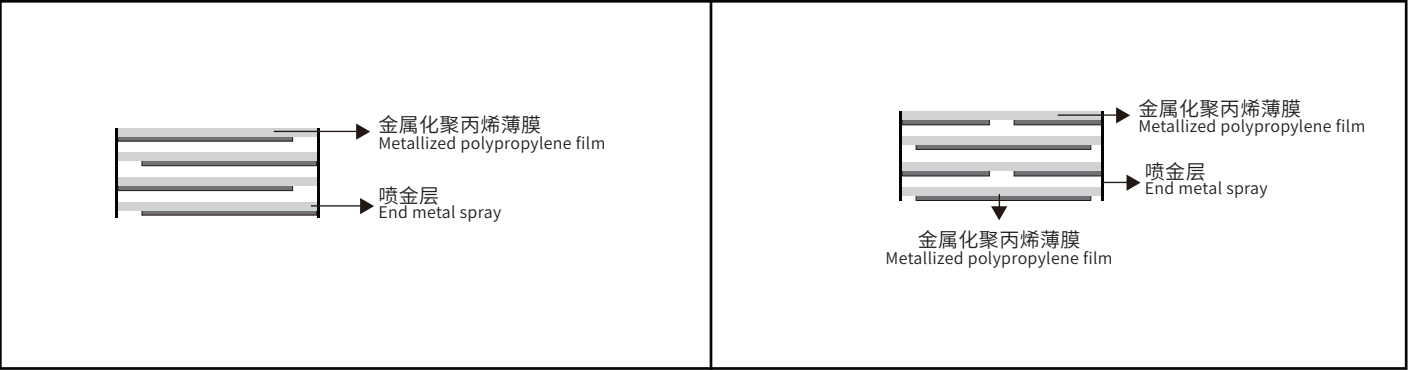
|                                     |                                |
|-------------------------------------|--------------------------------|
| ● 引用标准Reference Standard            | IEC61071 .GB/T17702            |
| ● 工作温度范围Operating Temperature Range | -40℃~+70℃(Max. +85℃) Tmax+85℃  |
| ● 容量范围Capacitance Range             | 5.0µF ~100µF                   |
| ● 额定电压Rated Voltage                 | 400VDC~1200VDC                 |
| ● 容量偏差Capacitance Tolerance         | ±5%(J); ±10%(K)                |
| ● 耐电压Withstand Voltage              | 1.5Un DC/10S                   |
| ● 损耗角正切Dissipation Factor           | tgδ≤0.0010 f=100Hz at 20℃      |
| ● 绝缘电阻Insulation Resistance         | RsC≥10000S (at 20℃ 100VDC 60S) |
| ● 阻燃性Flame Retardation              | UL94V-0                        |
| ● 预期寿命Life Expectancy               | 100000hrs ( Un θhotspot ≤ 55℃) |

典型线路图.Typical Circuit

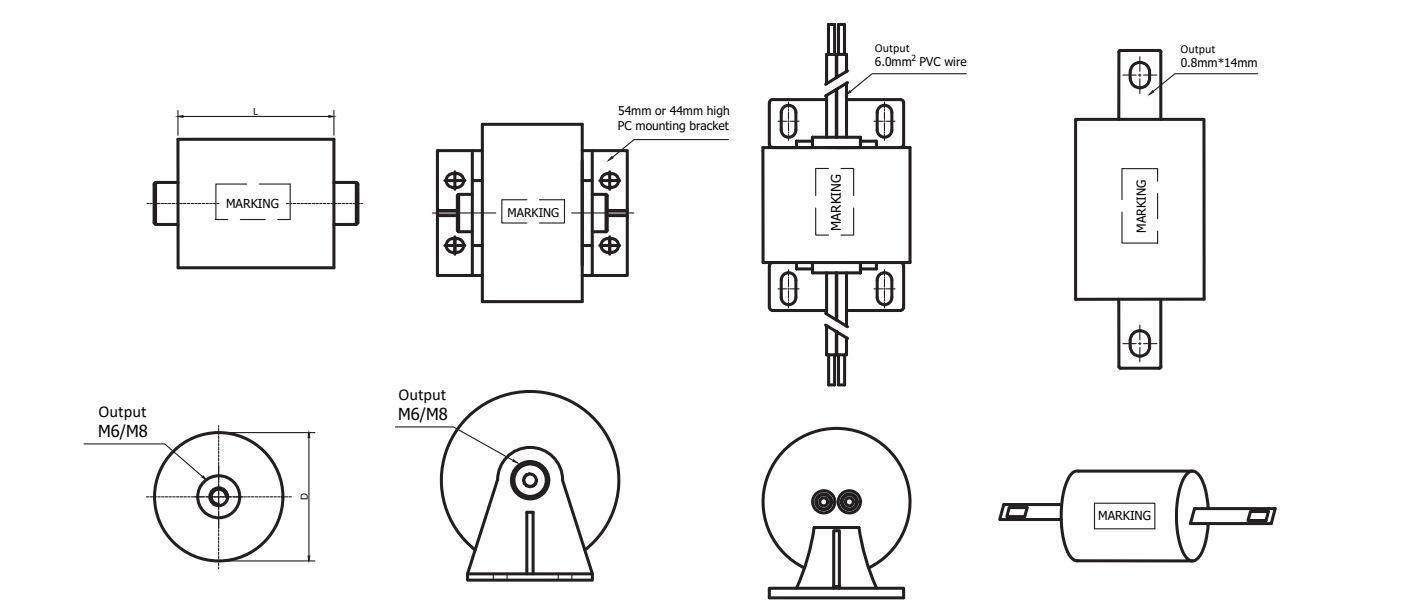


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结构图.Construction Diagram



产品外形.Product Shape



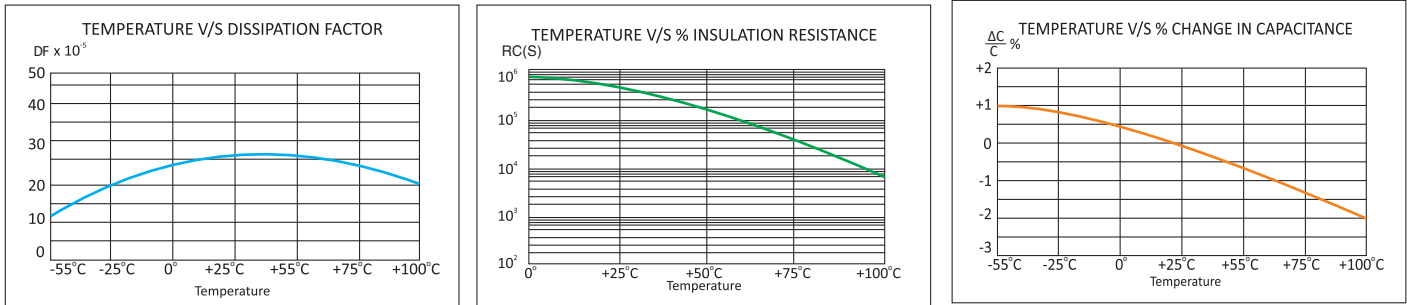
产品编码.Product Coding

|                       |    |    |                                                 |    |    |                                                     |    |    |                                                                                                                      |    |    |                                                                                         |    |    |                                  |    |    |    |
|-----------------------|----|----|-------------------------------------------------|----|----|-----------------------------------------------------|----|----|----------------------------------------------------------------------------------------------------------------------|----|----|-----------------------------------------------------------------------------------------|----|----|----------------------------------|----|----|----|
| 01                    | 02 | 03 | 04                                              | 05 | 06 | 07                                                  | 08 | 09 | 10                                                                                                                   | 11 | 12 | 13                                                                                      | 14 | 15 | 16                               | 17 | 18 | 19 |
| C                     | 6  | 1  | X                                               | X  | N  | X                                                   | X  | N  |                                                                                                                      |    |    |                                                                                         |    |    |                                  | -  |    |    |
| 产品型号<br>Product model |    |    | 额定电压<br>Rated voltage<br>XX*10 <sup>n</sup> (V) |    |    | 标称容量<br>Nominal capacity<br>XX*10 <sup>n</sup> (pF) |    |    | 引出电极<br>Extraction electrode<br>P-焊片<br>P-Soldering lug<br>F-螺母<br>F-Nut<br>W-UL线<br>W-UL Wire<br>R-3C线<br>R-3C Wire |    |    | 引线型号<br>Lead wire type<br>引线为焊片时,空缺此栏<br>Leads are soldering lugs, the column is vacant |    |    | 序列号<br>Serial number<br>01、02... |    |    |    |
|                       |    |    |                                                 |    |    |                                                     |    |    | 容量偏差<br>Capacity deviation<br>J ±5%<br>K ±10%                                                                        |    |    | 引线形式<br>Leads form<br>G01、H01、I01、J01、K01、W01                                           |    |    |                                  |    |    |    |

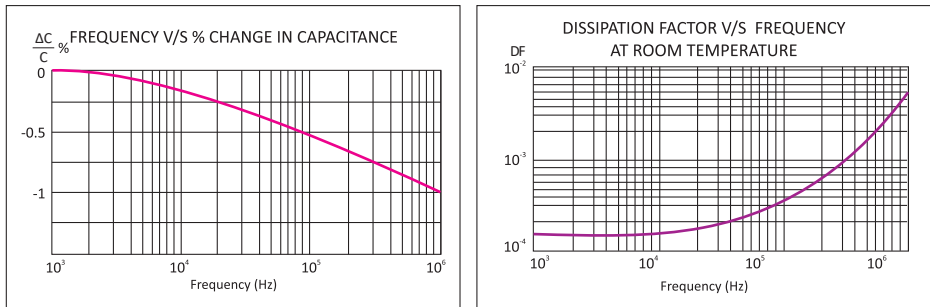
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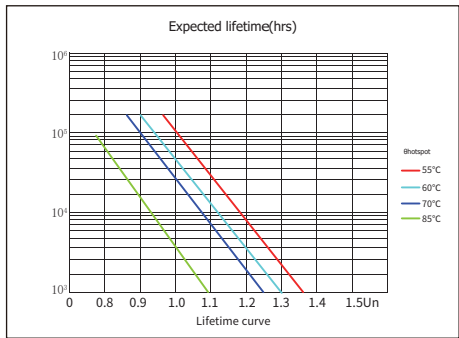
温度特性.Frequency Characteristics



频率特性.Temperature Characteristics



预期寿命 Life Expectancy



C61AC / DC Filter and High Ripple Current Capacitor

参数表,Article Table

| Part Number              | CAP<br>μF | Dimension (mm) |     | dV/dt<br>(V/μs) | Ipeak<br>(A) | Irms<br>@10KHz40℃<br>(A) | ESL<br>(nH) | ESR<br>@10KHz20℃<br>(mΩ) | Output |
|--------------------------|-----------|----------------|-----|-----------------|--------------|--------------------------|-------------|--------------------------|--------|
|                          |           | L              | D   |                 |              |                          |             |                          |        |
| UN 400VDC / Urms 250VAC  |           |                |     |                 |              |                          |             |                          |        |
| C61401206J*****          | 20        | 40             | 44  | 80              | 1600         | 45                       | 23          | 4.0                      | M6     |
| C61401256J*****          | 25        | 50             | 47  | 70              | 1750         | 50                       | 31          | 3.3                      | M6     |
| C61401306J*****          | 30        | 50             | 50  | 65              | 1950         | 55                       | 30          | 2.7                      | M6     |
| C61401406J*****          | 40        | 50             | 58  | 60              | 2400         | 60                       | 28          | 2.0                      | M6     |
| C61401506J*****          | 50        | 50             | 64  | 55              | 2750         | 70                       | 27          | 1.6                      | M8     |
| C61401606J*****          | 60        | 60             | 57  | 45              | 2700         | 65                       | 26          | 1.5                      | M6     |
| C61401806J*****          | 80        | 60             | 66  | 40              | 3200         | 75                       | 24          | 1.1                      | M8     |
| C61401107J*****          | 100       | 60             | 74  | 35              | 3500         | 85                       | 23          | 0.9                      | M8     |
| UN 800VDC / Urms 400VAC  |           |                |     |                 |              |                          |             |                          |        |
| C61801106J*****          | 10        | 40             | 42  | 100             | 1000         | 40                       | 28          | 6.0                      | M6     |
| C61801156J*****          | 15        | 50             | 44  | 80              | 1200         | 45                       | 35          | 5.0                      | M6     |
| C61801206J*****          | 20        | 50             | 52  | 75              | 1500         | 50                       | 32          | 4.5                      | M6     |
| C61801256J*****          | 25        | 50             | 58  | 75              | 1875         | 55                       | 32          | 3.2                      | M6     |
| C61801306J*****          | 30        | 50             | 63  | 70              | 2100         | 60                       | 30          | 2.7                      | M6     |
| C61801406J*****          | 40        | 60             | 63  | 55              | 2200         | 68                       | 30          | 2.0                      | M8     |
| C61801506J*****          | 50        | 60             | 70  | 50              | 2500         | 75                       | 27          | 1.6                      | M8     |
| C61801606J*****          | 60        | 60             | 76  | 50              | 3000         | 80                       | 25          | 1.2                      | M8     |
| C61801806J*****          | 80        | 60             | 88  | 45              | 3600         | 95                       | 24          | 1.0                      | M8     |
| C61801107J*****          | 100       | 60             | 98  | 40              | 4000         | 110                      | 23          | 0.9                      | M8     |
| UN 1200VDC / Urms 500VAC |           |                |     |                 |              |                          |             |                          |        |
| C61122505J*****          | 5         | 40             | 44  | 120             | 600          | 35                       | 30          | 8.0                      | M6     |
| C61122106J*****          | 10        | 50             | 58  | 100             | 1000         | 45                       | 38          | 6.5                      | M6     |
| C61122156J*****          | 15        | 50             | 70  | 100             | 1500         | 50                       | 35          | 3.8                      | M8     |
| C61122206J*****          | 20        | 60             | 66  | 80              | 1600         | 55                       | 32          | 3.2                      | M8     |
| C61122256J*****          | 25        | 60             | 74  | 80              | 2000         | 65                       | 32          | 2.5                      | M8     |
| C61122306J*****          | 30        | 60             | 81  | 80              | 2400         | 75                       | 30          | 2.1                      | M8     |
| C61122406J*****          | 40        | 60             | 93  | 80              | 3200         | 85                       | 27          | 1.7                      | M8     |
| C61122506J*****          | 50        | 60             | 105 | 80              | 4000         | 100                      | 25          | 1.3                      | M8     |

以上表格/图形仅供参考,以实物为准,(单位:mm)  
The above table / graphics are for reference only, subject to the actual product (unit: mm)  
备注:最大电流Irms为f=10kHz,Tamb=40℃ △T≤15℃的值。  
Note:Maximum Irms current at 10kHz, Tamb=40℃ △T≤15℃.