

MHT SERIES

MHT系列

- Wide operating temperature range of - 25 ~ + 105°C
- Standard series for general-purpose
- Voltage range of 400V
- Load life of 4000 hours at 105°C

工作温度范围: - 25 ~ + 105°C
 通用型号的标准品
 工作电压: 400V
 使用寿命: 105°C 4000小时

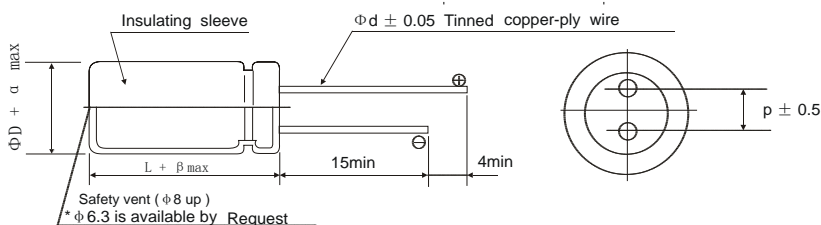


SPECIFICATIONS

技术参数

| Item (项目) | Characteristics (特征) | |
|---|--|---|
| Operating Temperature Range (使用温度范围) | - 25 ~ + 105°C | |
| Voltage Range (额定电压) | 400 V.DC | |
| Nominal Cap. Range (容量范围) | 1 ~ 100 μF | |
| Capacitance Tolerance (温度频率范围) | - 20% ~ + 20% (at 20°C, 120Hz) | |
| Leakage Current (漏电流) | W.V. | 400 V |
| | L.C. | I = 0.02CV + 15(μA) whichever is greater(after 5min) 施加额定电压5分钟测试 |
| where, I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20°C) 注解: I: 漏电流μA C: 容量(μF), V: 额定电压(V) (在 20°C) | | |
| Dissipation Factor (tanδ) (at 120Hz, +20°C) 损失角正切值 | W.V. | 400 |
| | tanδ | 0.20 |
| Low Temp. Impedance Stability at 120Hz (温度特性) | W. V. | 400 |
| | Z-25°C/Z+20°C | 8 |
| | Z-40°C/Z+20°C | - |
| High Temp. Load Test (高温负荷特性) | After 4000 hours, application of DC rated working voltage at + 105°C, the capacitor shall meet the following limits. 105°C施加额定电压4000小时后满足下列条件 Capacitance change ... ≤ ±30% of the initial measured value 容量在±20%范围内 Tan δ ... ≤ 250% of the initial specified value 损失角在初始规定值200% DC leakage current ... ≤ the initial specified value 漏电流小于或等于规格值 | |
| High Temp. Non-Load Test (高温无负荷特性) | After storage for 1000 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be met. 在105°C的条件下不加电压放置1000个小时, 按照JIS-C-5102中4-4的标准进行处理, 特性满足高温负荷特性 | |

DIMENSIONS(mm) 尺寸



| Unit:(mm) | 单位:mm | | | | | | |
|-----------|-------|-----|-----|-----|-----|-----|-----|
| φD | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 |
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| φd | 0.5 | | 0.6 | | 0.8 | | |
| β | 1.0 | | | 1.5 | | | |
| α | 0.5 | | | | | | |

MULTIPLIER FOR RIPPLE CURRENT 纹波电流修正系数

(1) Frequency coefficient 频率系数

| Cap(μF) | Freq.(HZ) | 60(50) | 120 | 300 | 1K | 10K |
|-------------|-----------|--------|------|------|------|------|
| | 0.1~ 47 | | 0.75 | 1.00 | 1.35 | 1.55 |
| 68 ~ 680 | | 0.80 | 1.00 | 1.25 | 1.34 | 1.50 |
| 1000 ~15000 | | 0.85 | 1.00 | 1.10 | 1.13 | 1.15 |

(2) Temperature coefficient 温度系数

| Ambient Temperature(°C) | 40 | 60 | 70 | 85 | 105 |
|-------------------------|-----|-----|------|------|-----|
| Coefficient | 2.4 | 2.1 | 1.78 | 1.65 | 1 |

SHELCON

Radial Lead Aluminum Electrolytic Capacitors

SHELCON

引线型铝电解电容器

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MHT系列

■ STANDARD SIZE

标准品一览表

| WV (VDC) | Cap(μ F)/120Hz | Case size | Ripple(mArms 105°C120Hz) |
|----------|---------------------|-----------|--------------------------|
| 额定电压 | 静电容量 | 尺寸DxL | 纹波电流 |
| 400 | 1.0 | 5*9 | 18 |
| | 2.2 | 6.3*9 | 30 |
| | 3.3 | 6.3*9 | 40 |
| | 4.7 | 8*9 | 75 |
| | 6.8 | 8*12 | 95 |
| | 10 | 8*12.5 | 135 |
| | 10 | 10*13 | 135 |
| | 15 | 10*13 | 195 |
| | 15 | 8*20 | 195 |
| | 22 | 10*17 | 220 |
| | 22 | 13*16 | 235 |
| | 33 | 10*25 | 255 |
| | 33 | 13*20 | 255 |
| | 47 | 13*25 | 310 |
| | 47 | 16*17 | 330 |
| | 68 | 16*22 | 350 |
| 100 | 16*32 | 550 | |
| 100 | 18*25 | 550 | |