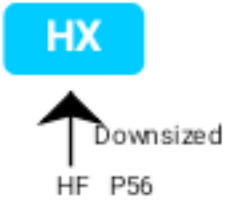


HX系列 SERIES



- 小型化产品 Downsized
- 保证105°C、2000小时寿命。(叠加纹波电流)
Endurance with ripple current: 2000 hours at 105°C
- 额定工作电压范围: 160V ~ 450V
Rated voltage range: 160V-450V



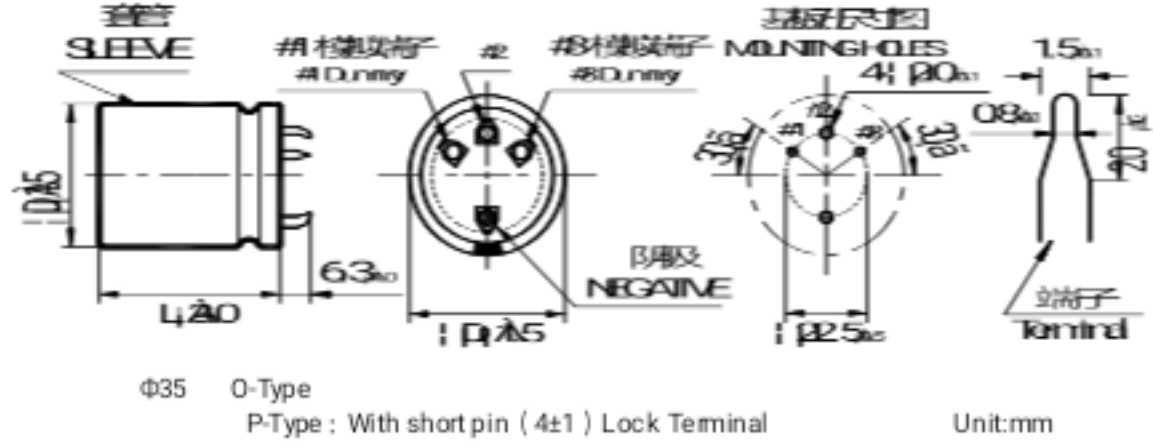
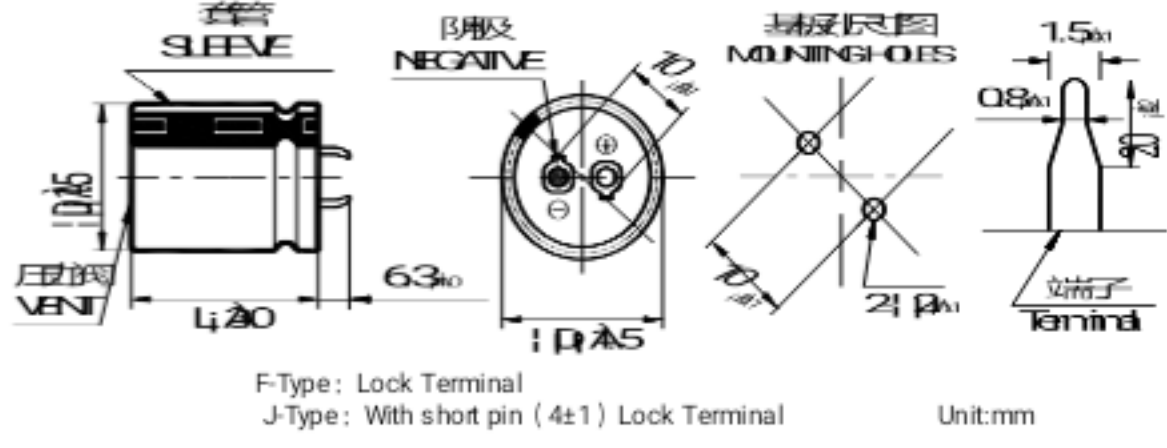
规格表 SPECIFICATIONS

| 项目 Items | 特性 Characteristics | | | | | | | | | | | | | | | | |
|---|--|--------------------|------|------|------|------|------|-----|-----|------------------------|------|------|------|------|------|------|------|
| 工作温度范围 Operating Temperature Range | - 25 ~ +105°C | | | | | | | | | | | | | | | | |
| 额定工作电压范围 Rated Working Voltage Range | 160 ~ 450V | | | | | | | | | | | | | | | | |
| 静电容量允许偏差 Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | |
| 损耗角正切值 Dissipation Factor (MAX) 20°C, 120Hz | <table border="1"> <tr> <td>U_R(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>315</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>tanδ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.18</td> <td>0.18</td> <td>0.20</td> </tr> </table> | U _R (V) | 160 | 200 | 250 | 315 | 350 | 400 | 450 | tanδ | 0.15 | 0.15 | 0.15 | 0.15 | 0.18 | 0.18 | 0.20 |
| U _R (V) | 160 | 200 | 250 | 315 | 350 | 400 | 450 | | | | | | | | | | |
| tanδ | 0.15 | 0.15 | 0.15 | 0.15 | 0.18 | 0.18 | 0.20 | | | | | | | | | | |
| 阻抗比 Impedance Ratio (MAX) 120Hz | <table border="1"> <tr> <td>U_R(V)</td> <td>160</td> <td>200</td> <td>250</td> <td>315</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z_{25°C/20°C}</td> <td>4</td> <td>4</td> <td>4</td> <td>7</td> <td>7</td> <td>7</td> <td>8</td> </tr> </table> | U _R (V) | 160 | 200 | 250 | 315 | 350 | 400 | 450 | Z _{25°C/20°C} | 4 | 4 | 4 | 7 | 7 | 7 | 8 |
| U _R (V) | 160 | 200 | 250 | 315 | 350 | 400 | 450 | | | | | | | | | | |
| Z _{25°C/20°C} | 4 | 4 | 4 | 7 | 7 | 7 | 8 | | | | | | | | | | |
| 漏电流 Leakage Current (MAX) | I = 0.01C _R U _R 或1.5mA取小者 (20°C, 施加额定电压5分钟后) I = 0.01C _R U _R or 1.5mA whichever is minimum. (at 20°C, After 5 minutes application of rated voltage) I = 漏电流 (μA) U _R = 额定电压 (V) C _R = 静电容量 (μF) Leakage Current Rated Voltage Rated Capacitance | | | | | | | | | | | | | | | | |

| | 使用寿命 Useful Life | 负荷寿命 Load Life | 耐久性特性 Endurance Test | 高温无负荷特性 Shelf Life |
|--|---|--|---|---|
| 产品寿命 Life Time | 3000h >180000h | 2000h | 2000h | 1000h |
| 漏电流 Leakage Current | ≤规定值 ≤Specified value | ≤规定值 ≤Specified value | ≤规定值 ≤Specified value | ≤规定值 ≤Specified value |
| 损耗角正切值变化率 Tgδ Change | ≤规定值的300% ≤300% of specified value | ≤规定值的200% ≤200% of specified value | ≤规定值的200% ≤200% of specified value | ≤规定值的200% ≤200% of specified value |
| 静电容量变化率 Capacitance Change | 初始值±30%以内 Within±30% of initial value | 初始值±20%以内 Within±20% of initial value | 初始值±20%以内 Within±20% of initial value | 初始值±20%以内 Within±20% of initial value |
| 施加条件 Condition 施加电压 Applied Voltage 施加纹波电流 Applied Ripple Current 环境温度 Applied Temperature 失效等级 Failure Rate Level | U _R I _R 105°C ≤1% Failure rate | U _R 1.4×I _R 40°C ≤1% Failure rate | U _R I _R 105°C 0% | U _R I _R 105°C 0% Back up to 20°C and placed more than 24 hours. U _R to be applied for 60 min before measurement. |

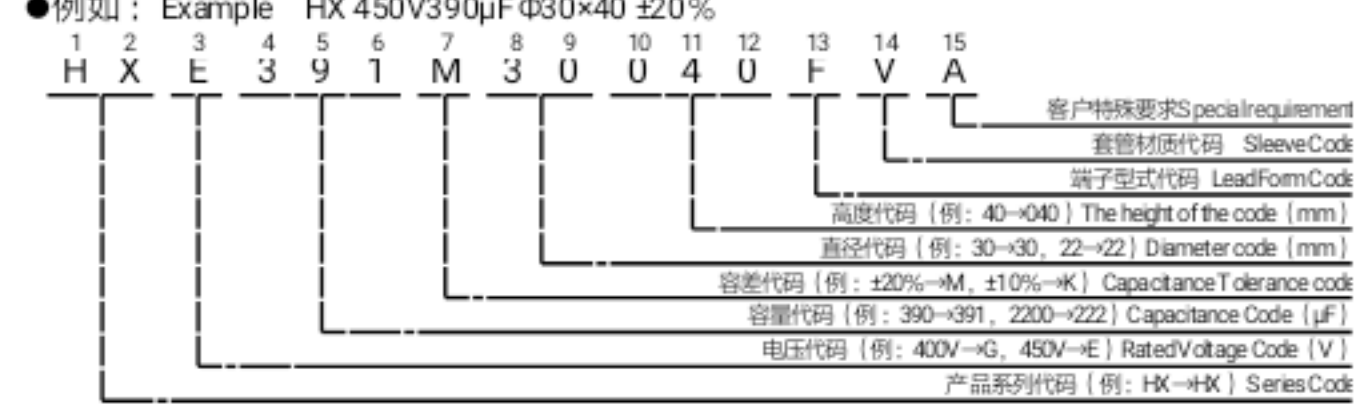
尺寸图 Dimensions

- 常用端子型式代码: Terminal Code



● 记载以外的端子形状, 请另行咨询。Please consult to us for the terminal type not displayed in content.

产品编码体系 PART NUMBER SYSTEM



纹波电流修正系数 Rated Ripple Current Multiplies

● 频率修正系数 Frequency coefficient

| 电压范围 (v) Rated voltage | 频率 (Hz) Frequency | 50 (60) | 100 (120) | 300 | 1k | ≥10k |
|---------------------------|----------------------|---------|-----------|------|------|------|
| 160 ~ 250V | | 0.80 | 1.00 | 1.17 | 1.32 | 1.45 |
| 315 ~ 450V | | 0.70 | 1.00 | 1.16 | 1.30 | 1.41 |

● 温度修正系数 Temperature coefficient

| 电压范围 (v) Rated voltage | 温度 (°C) Temperature | +40 | +55 | +70 | +85 | +105 |
|---------------------------|------------------------|-----|-----|-----|-----|------|
| 160 ~ 450V | | 2.7 | 2.5 | 2.1 | 1.7 | 1.0 |

HX系列 SERIES

◆ 产品一览表 Standard Ratings

| W _{DC} (Surge Voltage) (V) | Cap (μF) | Size D×L (mm) | tanδ 20°C/120Hz | Ripple Current 105°C/120Hz (Ams) | Catalog Part Number | |
|---|--------------|---------------------|--------------------|--|---------------------|-----------------|
| 100(125) | 4700 | 35×40 | 0.2 | 3.8 | HXO472M35040□VA | |
| | 560 | 22×25 | 0.15 | 1.58 | HXN561M22025□VA | |
| | 680 | 22×30 | 0.15 | 1.83 | HXN681M22030□VA | |
| | 820 | 22×35 | 0.15 | 2.06 | HXN821M22035□VA | |
| | 820 | 25×25 | 0.15 | 1.89 | HXN821M25025□VA | |
| | 1000 | 22×40 | 0.15 | 2.33 | HXN102M22040□VA | |
| | 1000 | 25×30 | 0.15 | 2.15 | HXN102M25030□VA | |
| | 1200 | 22×45 | 0.15 | 2.61 | HXN122M22045□VA | |
| | 1200 | 22×50 | 0.15 | 2.69 | HXN122M22050□VA | |
| | 1200 | 25×35 | 0.15 | 2.45 | HXN122M25035□VA | |
| | 1500 | 25×40 | 0.15 | 2.82 | HXN152M25040□VA | |
| | 1500 | 25×45 | 0.15 | 2.88 | HXN152M25045□VA | |
| | 1500 | 30×30 | 0.15 | 2.39 | HXN152M30030□VA | |
| | 1500 | 35×25 | 0.15 | 2.17 | HXN152M35025□VA | |
| | 1800 | 25×50 | 0.15 | 3.22 | HXN182M25050□VA | |
| | 1800 | 30×35 | 0.15 | 2.73 | HXN182M30035□VA | |
| | 1800 | 30×40 | 0.15 | 2.82 | HXN182M30040□VA | |
| | 1800 | 35×30 | 0.15 | 2.47 | HXN182M35030□VA | |
| | 160 (200) | 2200 | 30×45 | 0.15 | 3.23 | HXN222M30045□VA |
| | | 2200 | 35×35 | 0.15 | 2.79 | HXN222M35035□VA |
| 2700 | | 30×50 | 0.15 | 3.66 | HXN272M30050□VA | |
| 2700 | | 35×40 | 0.15 | 3.23 | HXN272M35040□VA | |
| 3300 | | 35×45 | 0.15 | 3.68 | HXN332M35045□VA | |
| 3900 | | 35×50 | 0.15 | 4.12 | HXN392M35050□VA | |
| 200 (250) | | 470 | 22×25 | 0.15 | 1.20 | HXL471M22025□VA |
| | | 560 | 22×30 | 0.15 | 1.48 | HXL561M22030□VA |
| | | 560 | 25×25 | 0.15 | 1.48 | HXL561M25025□VA |
| | | 680 | 22×35 | 0.15 | 1.62 | HXL681M22035□VA |
| | | 680 | 25×30 | 0.15 | 1.60 | HXL681M25030□VA |
| | | 820 | 22×40 | 0.15 | 1.75 | HXL821M22040□VA |
| | 820 | 25×35 | 0.15 | 1.75 | HXL821M25035□VA | |
| | 820 | 30×25 | 0.15 | 1.75 | HXL821M30025□VA | |
| | 1000 | 22×50 | 0.15 | 2.19 | HXL102M22050□VA | |
| | 1000 | 25×40 | 0.15 | 2.04 | HXL102M25040□VA | |
| | 1000 | 30×30 | 0.15 | 1.95 | HXL102M30030□VA | |
| | 1200 | 25×45 | 0.15 | 2.30 | HXL122M25045□VA | |
| | 1200 | 30×35 | 0.15 | 2.23 | HXL122M30035□VA | |
| | 1200 | 35×25 | 0.15 | 1.94 | HXL122M35025□VA | |
| | 1500 | 25×50 | 0.15 | 2.57 | HXL152M25050□VA | |
| | 1500 | 30×40 | 0.15 | 2.57 | HXL152M30040□VA | |
| | 1500 | 35×30 | 0.15 | 2.25 | HXL152M35030□VA | |
| | 1800 | 30×45 | 0.15 | 2.68 | HXL182M30045□VA | |
| | 1800 | 35×35 | 0.15 | 2.53 | HXL182M35035□VA | |
| | 2200 | 30×50 | 0.15 | 2.92 | HXL222M30050□VA | |
| 2200 | 35×40 | 0.15 | 2.92 | HXL222M35040□VA | | |
| 2700 | 35×45 | 0.15 | 3.27 | HXL272M35045□VA | | |
| 2700 | 35×50 | 0.15 | 3.33 | HXL272M35050□VA | | |
| 250 (300) | 330 | 22×25 | 0.15 | 1.21 | HXJ331M22025□VA | |
| | 390 | 22×30 | 0.15 | 1.38 | HXJ391M22030□VA | |
| | 470 | 22×35 | 0.15 | 1.56 | HXJ471M22035□VA | |
| | 560 | 22×40 | 0.15 | 1.74 | HXJ561M22040□VA | |
| | 560 | 25×30 | 0.15 | 1.61 | HXJ561M25030□VA | |
| | 680 | 22×45 | 0.15 | 1.97 | HXJ681M22045□VA | |
| | 680 | 25×35 | 0.15 | 1.85 | HXJ681M25035□VA | |
| | 820 | 25×40 | 0.15 | 2.08 | HXJ821M25040□VA | |
| | 820 | 25×45 | 0.15 | 2.13 | HXJ821M25045□VA | |
| | 820 | 30×30 | 0.15 | 1.77 | HXJ821M30030□VA | |
| | 820 | 35×25 | 0.15 | 1.60 | HXJ821M35025□VA | |

| W _{DC} (Surge Voltage) (V) | Cap (μF) | Size D×L (mm) | tanδ 20°C/120Hz | Ripple Current 105°C/120Hz (Ams) | Catalog Part Number |
|---|--------------|---------------------|--------------------|--|---------------------|
| 250 (300) | 1000 | 25×50 | 0.15 | 2.40 | HXJ102M25050□VA |
| | 1000 | 30×35 | 0.15 | 2.03 | HXJ102M30035□VA |
| | 1200 | 30×40 | 0.15 | 2.31 | HXJ122M30040□VA |
| | 1200 | 30×45 | 0.15 | 2.38 | HXJ122M30045□VA |
| | 1200 | 35×35 | 0.15 | 2.38 | HXJ122M35035□VA |
| | 1500 | 30×50 | 0.15 | 2.73 | HXJ152M30050□VA |
| | 1500 | 35×40 | 0.15 | 2.41 | HXJ152M35040□VA |
| | 1800 | 35×45 | 0.15 | 2.72 | HXJ182M35045□VA |
| | 2200 | 35×50 | 0.15 | 3.10 | HXJ222M35050□VA |
| | 315 (365) | 180 | 22×25 | 0.15 | 0.91 |
| 220 | | 22×30 | 0.15 | 1.06 | HXI221M22030□VA |
| 270 | | 22×35 | 0.15 | 1.20 | HXI271M22035□VA |
| 270 | | 25×25 | 0.15 | 1.15 | HXI271M25025□VA |
| 330 | | 22×40 | 0.15 | 1.37 | HXI331M22040□VA |
| 330 | | 25×30 | 0.15 | 1.30 | HXI331M25030□VA |
| 390 | | 22×45 | 0.15 | 1.52 | HXI391M22045□VA |
| 390 | | 25×35 | 0.15 | 1.48 | HXI391M25035□VA |
| 390 | | 30×25 | 0.15 | 1.39 | HXI391M30025□VA |
| 470 | | 22×50 | 0.15 | 1.72 | HXI471M22050□VA |
| 470 | | 25×40 | 0.15 | 1.67 | HXI471M25040□VA |
| 470 | | 30×30 | 0.15 | 1.57 | HXI471M30030□VA |
| 470 | | 35×25 | 0.15 | 1.52 | HXI471M35025□VA |
| 560 | | 25×45 | 0.15 | 1.86 | HXI561M25045□VA |
| 350 (400) | | 560 | 30×35 | 0.15 | 1.78 |
| | 680 | 25×50 | 0.15 | 2.10 | HXI681M25050□VA |
| | 680 | 30×40 | 0.15 | 2.03 | HXI681M30040□VA |
| | 680 | 35×30 | 0.15 | 1.90 | HXI681M35030□VA |
| | 820 | 30×45 | 0.15 | 2.31 | HXI821M30045□VA |
| | 820 | 35×35 | 0.15 | 2.13 | HXI821M35035□VA |
| | 1000 | 30×50 | 0.15 | 2.61 | HXI102M30050□VA |
| | 1000 | 35×40 | 0.15 | 2.46 | HXI102M35040□VA |
| | 1200 | 35×45 | 0.15 | 2.78 | HXI122M35045□VA |
| | 1200 | 35×50 | 0.15 | 2.86 | HXI122M35050□VA |
| | 150 | 22×35 | 0.18 | 0.84 | HXH151M22035□VA |
| | 220 | 22×30 | 0.18 | 1.06 | HXH221M22030□VA |
| | 220 | 25×25 | 0.18 | 1.04 | HXH221M25025□VA |
| | 270 | 22×35 | 0.18 | 1.20 | HXH271M22035□VA |
| | 270 | 25×30 | 0.18 | 1.18 | HXH271M25030□VA |
| | 330 | 22×40 | 0.18 | 1.37 | HXH331M22040□VA |
| | 330 | 22×45 | 0.18 | 1.40 | HXH331M22045□VA |
| | 330 | 25×35 | 0.18 | 1.36 | HXH331M25035□VA |
| | 330 | 30×25 | 0.18 | 1.28 | HXH331M30025□VA |
| | 390 | 22×50 | 0.18 | 1.56 | HXH391M22050□VA |
| 390 | 25×40 | 0.18 | 1.52 | HXH391M25040□VA | |
| 390 | 30×30 | 0.18 | 1.43 | HXH391M30030□VA | |
| 390 | 35×25 | 0.18 | 1.38 | HXH391M35025□VA | |
| 470 | 25×45 | 0.18 | 1.71 | HXH471M25045□VA | |
| 560 | 25×50 | 0.18 | 1.90 | HXH561M25050□VA | |
| 560 | 30×35 | 0.18 | 1.78 | HXH561M30035□VA | |
| 560 | 30×40 | 0.18 | 1.84 | HXH561M30040□VA | |
| 680 | 30×45 | 0.18 | 2.10 | HXH681M30045□VA | |
| 680 | 35×35 | 0.18 | 1.94 | HXH681M35035□VA | |
| 820 | 30×50 | 0.18 | 2.26 | HXH821M30050□VA | |
| 820 | 35×40 | 0.18 | 2.23 | HXH821M35040□VA | |
| 1000 | 35×45 | 0.18 | 2.54 | HXH102M35045□VA | |
| 1000 | 35×50 | 0.18 | 2.56 | HXH102M35050□VA | |
| 1200 | 35×50 | 0.18 | 2.86 | HXH122M35050□VA | |

*产品编码中□内为产品端子引出型式代码
*Enter the appropriate terminal code

HX系列 SERIES

◆产品一览表 Standard Ratings

| WV _{DC} (Surge Voltage) (V) | Cap (μ F) | Size D \times L (mm) | tan δ 20°C120Hz | Ripple Current 105°C120Hz (Arms) | Catalog Part Number | WV _{DC} (Surge Voltage) (V) | Cap (μ F) | Size D \times L (mm) | tan δ 20°C120Hz | Ripple Current 105°C120Hz (Arms) | Catalog Part Number |
|---|-------------------|------------------------------|---------------------------|--|---------------------|---|-------------------|------------------------------|---------------------------|--|---------------------|
| 400 (450) | 120 | 22 \times 25 | 0.18 | 0.70 | HXG121M22025□VA | 450 (500) | 100 | 22 \times 25 | 0.20 | 0.71 | HXE101M22025□VA |
| | 120 | 22 \times 30 | 0.18 | 0.75 | HXG121M22030□VA | | 120 | 22 \times 30 | 0.20 | 0.82 | HXE121M22030□VA |
| | 180 | 22 \times 30 | 0.18 | 0.96 | HXG181M22030□VA | | 150 | 22 \times 30 | 0.20 | 0.88 | HXE151M22030□VA |
| | 180 | 25 \times 25 | 0.18 | 0.94 | HXG181M25025□VA | | 150 | 22 \times 35 | 0.20 | 0.94 | HXE151M22035□VA |
| | 220 | 22 \times 35 | 0.18 | 1.09 | HXG221M22035□VA | | 150 | 25 \times 25 | 0.20 | 0.89 | HXE151M25025□VA |
| | 220 | 25 \times 30 | 0.18 | 1.07 | HXG221M25030□VA | | 180 | 22 \times 35 | 0.20 | 0.99 | HXE181M22035□VA |
| | 270 | 22 \times 40 | 0.18 | 1.24 | HXG271M22040□VA | | 180 | 22 \times 40 | 0.20 | 1.05 | HXE181M22040□VA |
| | 270 | 22 \times 45 | 0.18 | 1.26 | HXG271M22045□VA | | 180 | 25 \times 30 | 0.20 | 1.00 | HXE181M25030□VA |
| | 270 | 25 \times 35 | 0.18 | 1.23 | HXG271M25035□VA | | 220 | 22 \times 40 | 0.20 | 1.13 | HXE221M22040□VA |
| | 270 | 30 \times 25 | 0.18 | 1.16 | HXG271M30025□VA | | 220 | 22 \times 45 | 0.20 | 1.19 | HXE221M22045□VA |
| | 330 | 22 \times 45 | 0.18 | 1.37 | HXG331M22045□VA | | 220 | 25 \times 35 | 0.20 | 1.16 | HXE221M25035□VA |
| | 330 | 22 \times 50 | 0.18 | 1.44 | HXG331M22050□VA | | 220 | 30 \times 25 | 0.20 | 1.11 | HXE221M30025□VA |
| | 330 | 25 \times 40 | 0.18 | 1.40 | HXG331M25040□VA | | 270 | 22 \times 50 | 0.20 | 1.36 | HXE271M22050□VA |
| | 330 | 30 \times 30 | 0.18 | 1.31 | HXG331M30030□VA | | 270 | 25 \times 40 | 0.20 | 1.32 | HXE271M25040□VA |
| | 330 | 35 \times 25 | 0.18 | 1.27 | HXG331M35025□VA | | 270 | 25 \times 45 | 0.20 | 1.35 | HXE271M25045□VA |
| | 390 | 25 \times 40 | 0.18 | 1.47 | HXG391M25040□VA | | 270 | 30 \times 30 | 0.20 | 1.26 | HXE271M30030□VA |
| | 390 | 25 \times 45 | 0.18 | 1.55 | HXG391M25045□VA | | 270 | 35 \times 25 | 0.20 | 1.26 | HXE271M35025□VA |
| | 390 | 30 \times 35 | 0.18 | 1.49 | HXG391M30035□VA | | 330 | 25 \times 45 | 0.20 | 1.35 | HXE331M25045□VA |
| | 470 | 25 \times 50 | 0.18 | 1.74 | HXG471M25050□VA | | 330 | 25 \times 50 | 0.20 | 1.52 | HXE331M25050□VA |
| | 470 | 30 \times 40 | 0.18 | 1.69 | HXG471M30040□VA | | 330 | 30 \times 35 | 0.20 | 1.45 | HXE331M30035□VA |
| | 470 | 35 \times 30 | 0.18 | 1.58 | HXG471M35030□VA | | 330 | 35 \times 30 | 0.20 | 1.45 | HXE331M35030□VA |
| | 560 | 30 \times 45 | 0.18 | 1.91 | HXG561M30045□VA | | 390 | 30 \times 40 | 0.20 | 1.63 | HXE391M30040□VA |
| | 560 | 35 \times 35 | 0.18 | 1.76 | HXG561M35035□VA | | 470 | 30 \times 45 | 0.20 | 1.85 | HXE471M30045□VA |
| | 680 | 30 \times 50 | 0.18 | 2.15 | HXG681M30050□VA | | 470 | 30 \times 50 | 0.20 | 1.90 | HXE471M30050□VA |
| | 680 | 35 \times 40 | 0.18 | 2.03 | HXG681M35040□VA | | 470 | 35 \times 35 | 0.20 | 1.77 | HXE471M35035□VA |
| | 820 | 35 \times 45 | 0.18 | 2.30 | HXG821M35045□VA | | 560 | 35 \times 40 | 0.20 | 2.02 | HXE561M35040□VA |
| | 820 | 35 \times 50 | 0.18 | 2.37 | HXG821M35050□VA | | 560 | 35 \times 45 | 0.20 | 2.08 | HXE561M35045□VA |
| | 1000 | 35 \times 50 | 0.18 | 2.60 | HXG102M35050□VA | | 680 | 35 \times 45 | 0.20 | 2.26 | HXE681M35045□VA |
| | | | | | 680 | 35 \times 50 | 0.20 | 2.36 | HXE681M35050□VA | | |

*产品编码中□内为产品端子引出型式代码

*□ Enter the appropriate terminal code

*记载之外的体积，请另行咨询。

* Please ask for advice for other sizes.

*铝电解电容器由于承受纹波电流而发热，随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。

*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.

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[B41022A5686M6](#) [ESRG250ELL101MH09D](#) [EKMA160EC3101MF07D](#) [RJB-10V471MG3#](#) [ESMG160ETD221MF11D](#)
[EKZH160ETD152MJ20S](#) [RJH-35V122MJ6#](#) [EGXF630ELL621ML20S](#) [RBD-25V100KE3#N](#) [EKMA350ELL100ME07D](#)
[ESMG160ETD101ME11D](#) [ELXY100ETD102MJ20S](#) [EGXF500ELL561ML15S](#) [EKMG350ETD471MJ16S](#) [35YXA330MEFC10X12.5](#)
[RXW471M1ESA-0815](#) [ELXZ630ELL221MJ25S](#) [ERR1HM1R0D11OT](#) [LPE681M30060FVA](#) [LPL471M22030FVA](#) [HFE221M25030FVA](#)
[LKMD1401H221MF](#) [B41888G6108M000](#) [EKMA160ETD470MF07D](#) [UHW1J102MHD6](#) [EKMG500ETD221MJC5S](#) [LKMK2502W101MF](#)
[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)