

## Conduction Cooled Capacitors – JDA

### FEATURES

- High voltage, high frequency
- High dv/dt characteristics, can bear high current,
- Good heat radiation performance, Self-healing

### TYPICAL APPLICATION

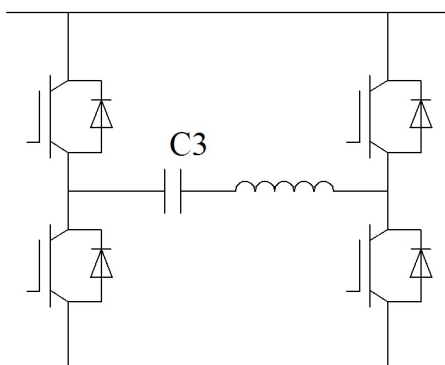
- Widely used in high power high frequency resonant device



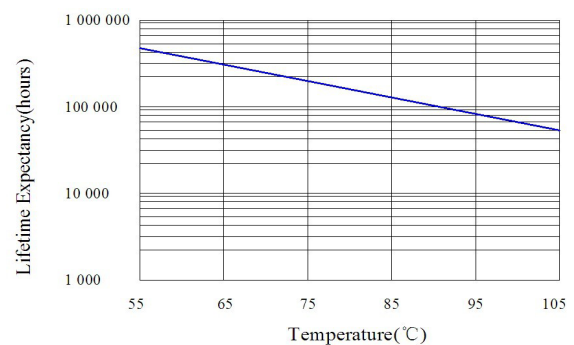
### TECHNICAL SPECIFICATIONS

| ITEMS                                   | CHARACTERISTICS                                          |
|-----------------------------------------|----------------------------------------------------------|
| Reference standards                     | GB/T 3984 IEC 60110..1                                   |
| Operating temperature range             | -25°C~85°C                                               |
| Capacitance                             | 0.1μF ~84μF                                              |
| Rated capacity                          | 300kVar,600kVar,750kVar,800kVar ,1500kVar                |
| Rated Voltage                           | 400V.AC ~1000 V.AC                                       |
| Tolerance                               | ±5% ±10%                                                 |
| Dissipation factor                      | $\text{tg}\delta \leq 5 \times 10^{-4}$ at 25°C±5°C,1KHz |
| Insulation resistance                   | C·R≥5000S,at 100V.DC,25°C±5°C,60s                        |
| Test voltage between terminals          | 1.5Un (10S,25°C±5°C)                                     |
| Test voltage between terminals and case | 3000V.AC(10S,50/60Hz,25°C±5°C)                           |
| Max Altitude                            | 2000m                                                    |
| Expected lifetime                       | 200 000hrs @ Un,θhs=70°C                                 |
| Failure rate                            | 100FIT                                                   |

### Typical circuit

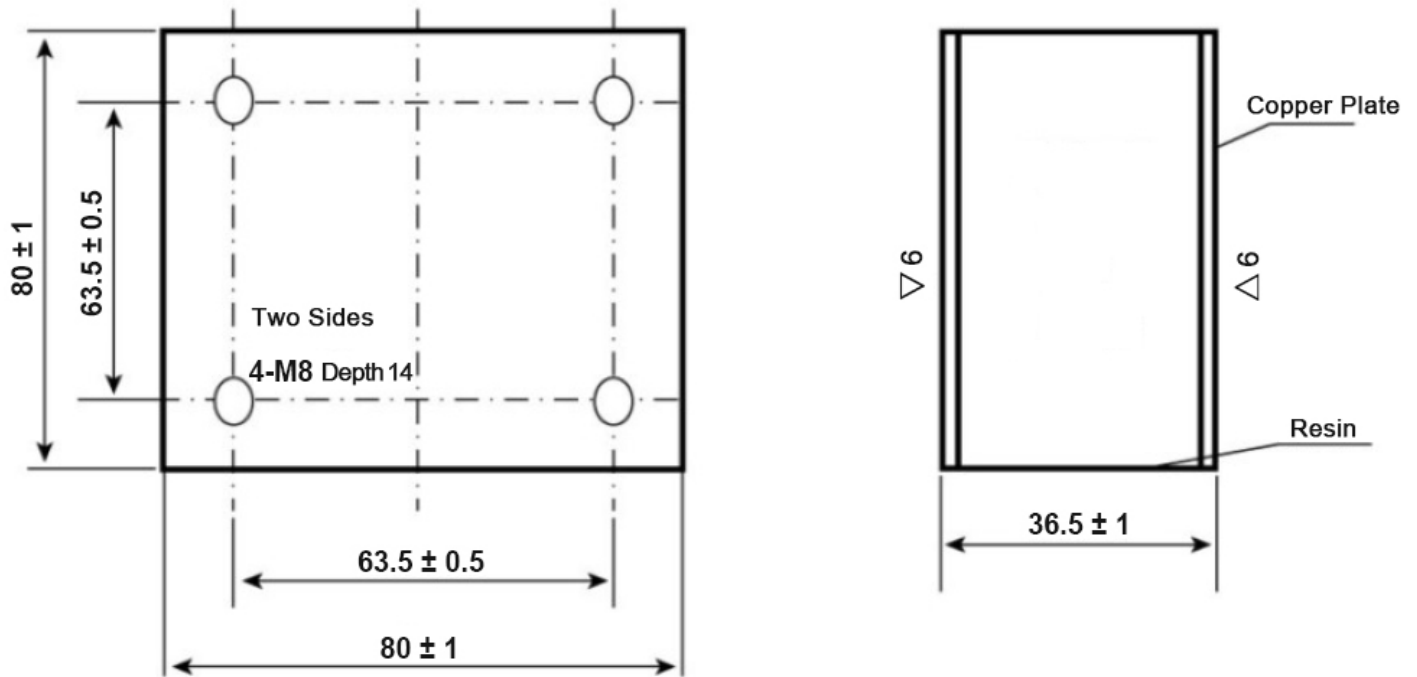


### Expected lifetime curve



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### Outline Drawing



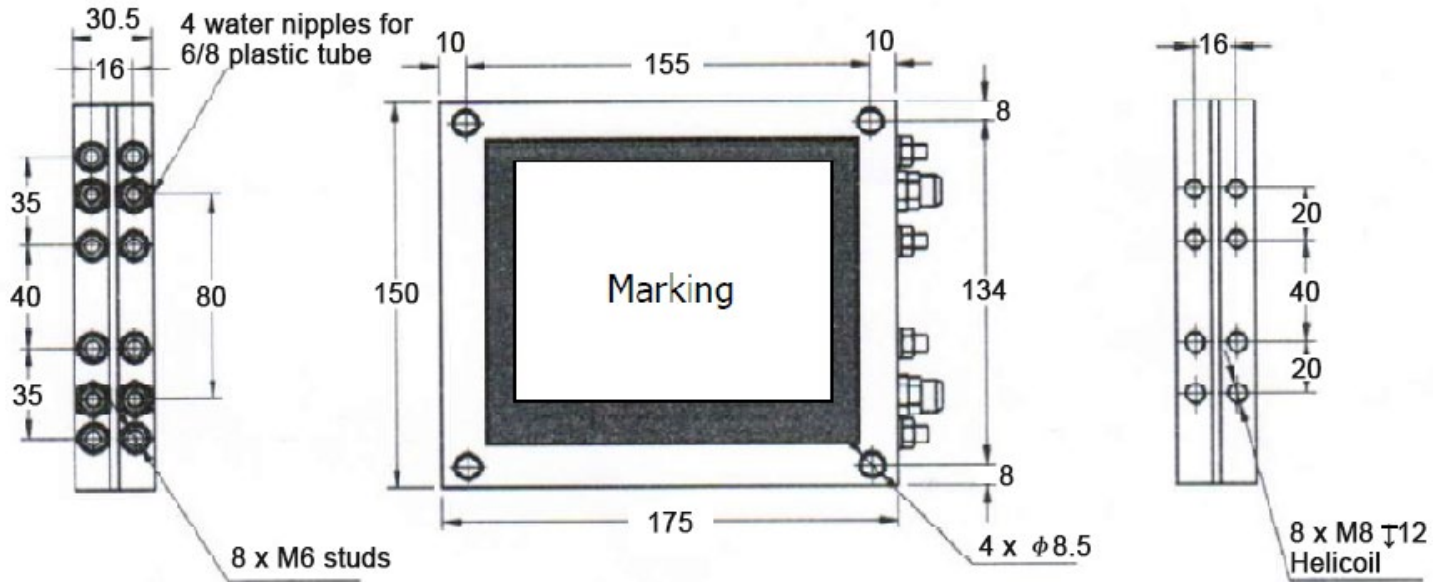
### STANDARD SIZE

| Cap(uF) | (kVar) | Rated Voltage (VAC) | Irms (A) | Upeak (V) | Frequency @Full Power (kHz) | ESL (nH) | Outline size (mm) |
|---------|--------|---------------------|----------|-----------|-----------------------------|----------|-------------------|
| 0.1     | 300    | 1000                | 400      | 1410      | 477~840                     | 5        | 80*80*36.5        |
| 0.2     | 300    | 1000                | 400      | 1410      | 239~420                     | 5        | 80*80*36.5        |
| 0.24    | 300    | 1000                | 400      | 1410      | 200~350                     | 5        | 80*80*36.5        |
| 0.33    | 300    | 700                 | 500      | 990       | 290~400                     | 5        | 80*80*36.5        |
| 0.47    | 300    | 700                 | 500      | 990       | 200~280                     | 5        | 80*80*36.5        |
| 0.68    | 300    | 700                 | 500      | 990       | 140~190                     | 5        | 80*80*36.5        |
| 0.75    | 300    | 700                 | 500      | 990       | 130~170                     | 5        | 80*80*36.5        |
| 1.0     | 300    | 600                 | 650      | 850       | 132~190                     | 5        | 80*80*36.5        |
| 1.2     | 300    | 500                 | 650      | 710       | 160~185                     | 5        | 80*80*36.5        |
| 2.0     | 300    | 400                 | 800      | 570       | 150~160                     | 5        | 80*80*36.5        |
| 4.0     | 300    | 400                 | 800      | 570       | 75~84                       | 5        | 80*80*36.5        |

Note: Special requirements can be designed according to customer requirements

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Outline drawing



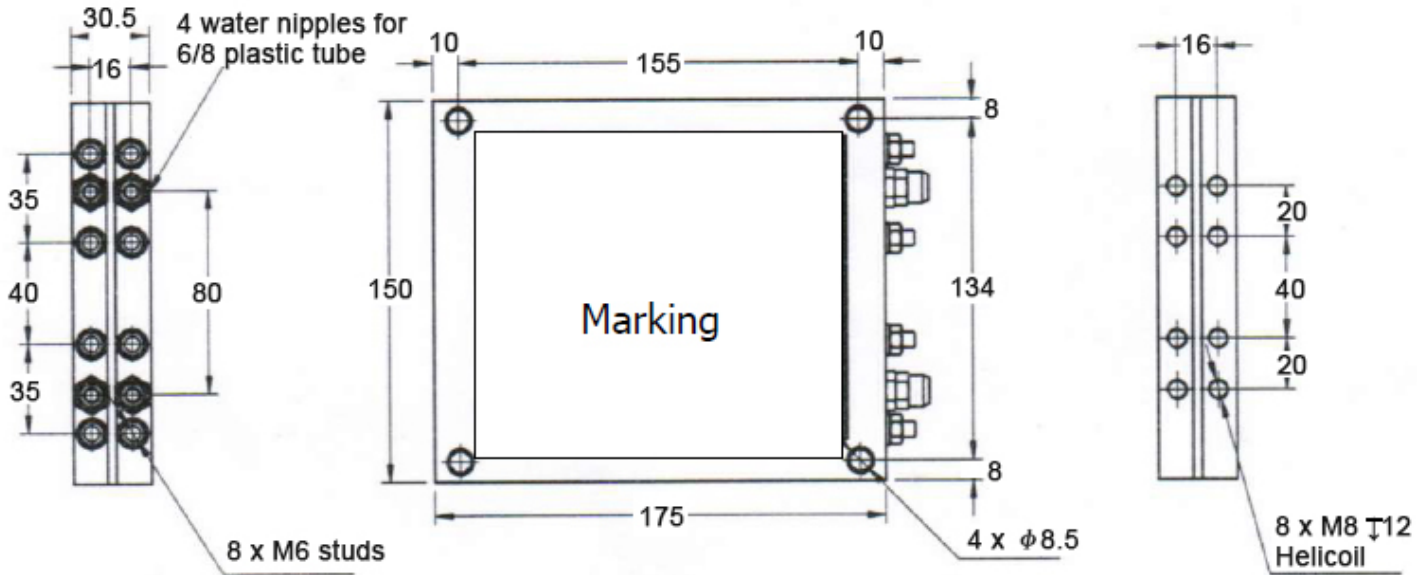
### STANDARD SIZE

| Cap( $\mu$ F) | (kVar) | Rated Voltage (VAC) | Irms(A) | Upeak (V) | Frequency @Full Power (kHz) | ESL (nH) | Outline size (mm) |
|---------------|--------|---------------------|---------|-----------|-----------------------------|----------|-------------------|
| <b>0.4</b>    | 800    | 700                 | 1200    | 990       | 650~700                     | 5        | 160*120*37.5      |
| <b>0.8</b>    | 800    | 700                 | 1500    | 990       | 325~560                     | 5        | 160*120*37.5      |
| <b>1.4</b>    | 800    | 700                 | 1500    | 990       | 186~320                     | 5        | 160*120*37.5      |
| <b>2.7</b>    | 800    | 700                 | 1500    | 990       | 96~166                      | 5        | 160*120*37.5      |
| <b>4.0</b>    | 800    | 600                 | 1500    | 850       | 88~112                      | 5        | 160*120*37.5      |
| <b>5.3</b>    | 800    | 600                 | 1500    | 850       | 67~84                       | 5        | 160*120*37.5      |
| <b>11</b>     | 750    | 500                 | 1500    | 710       | 43                          | 5        | 160*120*37.5      |
| <b>19</b>     | 600    | 400                 | 1500    | 570       | 31                          | 5        | 160*120*37.5      |

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Outline drawing



### STANDARD SIZE

| Cap( $\mu$ F) | (kVar) | Rated Voltage (VAC) | Irms (A) | Upeak (V) | Frequency @Full Power (kHz) | ESL (nH) | Outline size (mm) |
|---------------|--------|---------------------|----------|-----------|-----------------------------|----------|-------------------|
| <b>0.5</b>    | 1500   | 1000                | 1750     | 1410      | 477~650                     | 5        | 177*150*37.5      |
| <b>1</b>      | 1500   | 1000                | 1750     | 1410      | 239~325                     | 5        | 177*150*37.5      |
| <b>1.7</b>    | 1500   | 1000                | 1750     | 1410      | 140~191                     | 5        | 177*150*37.5      |
| <b>3.3</b>    | 1500   | 900                 | 1270     | 1270      | 89~201                      | 5        | 177*150*37.5      |
| <b>5</b>      | 1500   | 800                 | 1130     | 1130      | 75~133                      | 5        | 177*150*37.5      |
| <b>6.6</b>    | 1500   | 700                 | 990      | 990       | 74~145                      | 5        | 177*150*37.5      |
| <b>13.2</b>   | 1500   | 600                 | 850      | 850       | 50~72                       | 5        | 177*150*37.5      |
| <b>24</b>     | 1500   | 500                 | 710      | 710       | 40                          | 5        | 177*150*37.5      |

Note: Special requirements can be designed according to customer requirements

Note: Please visit our website to get more update data, those data & specification are subject to change without notice.